



2022 UK RADIOACTIVE WASTE DETAILED DATA

Report prepared for the Department for Business, Energy and Industrial Strategy (BEIS) and the Nuclear Decommissioning Authority (NDA) by Jacobs UK Ltd and AFRY Solutions UK Ltd

PREFACE

The 2022 United Kingdom Radioactive Waste and Materials Inventory (the 2022 Inventory) provides detailed information on radioactive wastes and materials in the United Kingdom (UK). It is produced by the Department for Business, Energy and Industrial Strategy (BEIS) and the Nuclear Decommissioning Authority (NDA).

The 2022 Inventory provides information on radioactive waste stocks (at 1 April 2022) and forecasts of future waste arisings. Information on radioactive materials that may be classed as waste in the future is also presented. The 2022 Inventory aims to provide data in an open and transparent manner for those interested in radioactive wastes and materials.

Information collected for the 2022 Inventory is presented in a suite of four reports:

- 2022 UK Radioactive Waste Inventory
- 2022 UK Radioactive Material Inventory
- 2022 UK Radioactive Waste Detailed Data
- 2022 Summary of UK Radioactive Waste and Material Inventory for International Reporting.

All documents have been prepared using information supplied to the 2022 Inventory contractors, Jacobs and AFRY by the radioactive waste producers and custodians. This information was verified in accordance with arrangements established by Jacobs and AFRY in agreement with NDA.

This report presents more detailed information on radioactive wastes than that given in the 2022 UK Radioactive Waste Inventory report.

Conditions of Publication

The NDA is seeking to make information on its activities readily available, and to enable interested parties to have access to and influence on its future programmes. The report may be freely used for non-commercial purposes. However, all commercial uses, including copying and republication, require permission from the NDA. All copyright, database rights and other intellectual property rights reside with the NDA. Applications for permission to use the report commercially should be made to the NDA Information Manager.

Although great care has been taken to ensure the accuracy and completeness of the information contained in this publication, the NDA cannot assume any responsibility for consequences that may arise from its use by other parties.

© Nuclear Decommissioning Authority 2022. All rights reserved.

Feedback

We welcome feedback on the content, clarity and presentation of the 2022 Inventory reports. Please do not hesitate to contact us if you would like to provide feedback or if you would like further information about radioactive waste issues:

Nuclear Decommissioning Authority Information Access Manager Herdus House Westlakes Science and Technology Park Moor Row Cumbria CA24 3HU

Tel: 01925 802077

enquiries@nda.gov.uk

Contents

1	Intr	oduction	7
	1.1	The Inventory	7
	1.2	Inventory documents	8
	1.3	This report	9
	1.3.1	Reporting conventions	9
_			
2	Inve	entory Data Reporting Conventions	11
3	Was	ste Volumes for UK	17
4	Was	ste Volumes by Region	19
5	Was	ste Volumes for Each Organisation	23
6	Site	Information Sheets	27
	AME	ERSHAM (GE HEALTHCARE)	28
	ALD	ERMASTON AND BURGHFIELD (MOD)	30
	BAR	ROW-IN-FURNESS (BAESM)	33
	BER	KELEY (NDA)	35
		DWELL (NDA)	37
		ENHURST (URENCO UK)	39
		PELCROSS (NDA)	41
		NB CLYDE (MOD)	43
		HAM (UKAEA)	45
		BY (RRSL) NB DEVONPORT (MOD)	47 49
		JNREAY (NDA)	51
		ININGTON (MOD)	54
		IGENESS A (NDA)	56
		IGENESS B (EDFE)	58
		TLEPOOL (EDFE)	60
		WELL (NDA)	62
	HEY	SHAM 1 (EDFE)	64
		SHAM 2 (EDFE)	66
	HINI	KLEY POINT A (NDA)	68
		KLEY POINT B (EDFE)	70
		KLEY POINT C (NNB GenCo (HPC))	72
		ITERSTON A (NDA)	74
		ITERSTON B (EDFE)	76
		R (NDA) E VULCAN (MOD)	78 80
		BURY (NDA)	82
		NB PORTSMOUTH (MOD)	84
		YTH AND DEVONPORT – DECOMMISSIONED SUBMARINES (MOD)	86
		YTH ROYAL DOCKYARD (MOD)	89
		AFIELD (NDA)	91
		WELL A (NDA)	94
		WELL B (EDFE)	96
	SPRI	NGFIELDS (NDA)	98
	TOR	NESS (EDFE)	101

2022 UK Radioactive Waste and Material Inventory

Radioactive Waste Detailed Data

Glo	ossary	173
8	Radionuclide Composition of wastes	163
7	List of Waste Streams in the Inventory and their Volumes	113
	MINOR WASTE PRODUCERS (various sites)	109
	WYLFA (NDA)	107
	WINFRITH (NDA)	105
	TRAWSFYNYDD (NDA)	103

1 INTRODUCTION

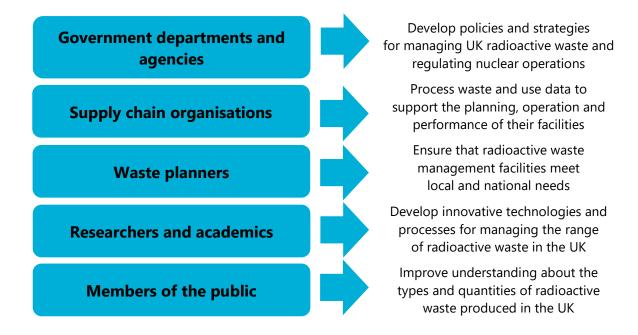
1.1 The Inventory

An inventory of radioactive waste and materials in the UK is compiled every three years by the Department for Business, Energy and Industrial Strategy (BEIS) and the Nuclear Decommissioning Authority (NDA).

The inventory provides up-to-date information about radioactive waste to:

- Inform policy and strategy development
- Enable the UK to meet international reporting obligations
- Aid radioactive waste and material management planning
- Support stakeholder engagement.

The inventory is used by a wide range of stakeholders:



The 2022 UK Radioactive Waste and Materials Inventory (the 2022 Inventory) is the latest public record on the sources, quantities and properties of radioactive waste and materials in the UK at 1 April 2022 and predicted to arise after that date.

1.2 Inventory documents

The 2022 Inventory comprises four reports:



Department for Business, Energy & Industrial Strategy

2022 UK Radioactive Waste Inventory



Radioactive Waste Inventory

Describes the sources, volume, composition and activity of radioactive waste in the UK, and a comparison with the previous inventory



Department for Business, Energy & Industrial Strategy

2022 UK Radioactive Waste Detailed Data



Waste Detailed Data

Provides further information on the radioactive waste inventory including a list of waste streams



Department for Business, Energy

2022 UK Radioactive Material Inventory



Radioactive Material Inventory

Summarises the quantities of UK civil nuclear materials that might have to be managed as waste in the future



Department for Business, Energy

2022 Summary of UK Radioactive Waste and Material Inventory for International Reporting



Summary for International Reporting

Gives information to meet the UK's international reporting obligations in the field of radioactive waste and materials

As part of the commitment to openness, NDA has created a website dedicated to the Inventory, www.nda.gov.uk/ukinventory. All of the 2022 Inventory reports can be found together with other information about radioactive waste at this location.

1.3 This report

This report provides detailed information on the 2022 UK Radioactive Waste Inventory:

- Waste volumes for England, Scotland and Wales
- Waste volumes for each organisation
- Site information sheets for each waste producing site in the UK
- Waste volumes for each waste stream in the 2022 Inventory
- The radionuclide composition of wastes
- The 2022 Inventory data reporting conventions.

1.3.1 Reporting conventions

Individual waste stream volumes cover a wide range (from less than 1 m³ to more than 1,000,000 m³). In this report summed waste stream volumes are rounded to three significant figures, as any impression of undue arithmetic accuracy can be misleading. Summed numbers of waste packages are also rounded to three significant figures, except for waste packages at 1 April 2022. In this case the actual numbers being held are reported. Summed waste stream material component masses and radioactivities are rounded to two significant figures.



Sizewell B power station site

2 INVENTORY DATA REPORTING CONVENTIONS

A large amount of information is collated in producing the Inventory, describing radioactive wastes from diverse sources and in different forms. As a result, certain conventions have been adopted to compile and report information on radioactive wastes in a consistent manner.

Similar conventions are used in compiling information for radioactive materials, although there are far fewer forms of material and less information is collated.

The fundamental designation used in the Inventory is that of the waste stream. Waste streams include waste or a collection of waste items at a particular site, usually in a particular facility and/or from particular processes or operations. A waste stream is often distinguishable by its radionuclide content and in many cases also by its physical and chemical characteristics.

Each waste stream in the Inventory is allocated a unique identification code. A complete list of waste streams in the 2022 Inventory, and their identifiers, is given in Section 7.

Reporting of wastes at category boundaries

The Inventory categorises each waste stream as HLW, ILW, LLW or VLLW. It also indicates whether it is expected to be managed as Higher Activity Waste (HAW) or Lower Activity Waste (LAW). HAW is managed through geological disposal (or long-term storage in the case of Scottish policy wastes). LAW is managed through near-surface disposal or suitable alternative management routes in accordance with the waste hierarchy. At the boundaries between the ILW and LLW categories there are a number of LLW streams where geological disposal may be more appropriate. There are also some ILW streams, particularly those containing short-lived radionuclides, where a more appropriate management route could be in a near-surface environment.

ILW categorisation is reported in the inventory for existing ILW streams that may be managed at some point as LLW. This includes current or planned waste management practices and also includes all future treatment where ILW might be managed as LLW. In this case, information is provided on how the waste is treated and its disposal route.

Similarly, certain LLW may be treated (e.g. by decontamination, metal melting) such that the bulk of the material is no longer classed as radioactive waste. Any residual activity can be managed through conventional disposal routes. Where these treatments are part of current waste management strategy, they lead to reduced estimates of packaged volumes requiring longer-term management.

Site contamination

The Inventory includes wastes associated with radioactively contaminated land and subsurface structures:

- 1. Radioactively contaminated land (e.g. soil) if it is excavated (e.g. for treatment or to access another subsurface structure, such as a pipeline)
- 2. Buildings and structures beneath the surface and radioactively contaminated above out-of-scope levels that will be excavated and disposed of ex situ.
- 3. Buildings and structures beneath the surface and radioactively contaminated above out-of-scope levels that will be excavated and disposed of in situ.

Radioactively contaminated land is not considered to be waste if there is no intention to excavate it (i.e. to leave it in situ). Radioactive land contamination may be managed in-situ pending better future characterisation and decisions about its longer-term management. Such material, as well as subsurface structures, may be given separately in the report '2022 UK Radioactive Material Inventory'. This is usually the case where there is significant uncertainty over the management route and/or waste amounts.

Reporting of volume

The Inventory presents radioactive waste volumes in three different ways to satisfy user needs:

- 1. Reported volume
- 2. Conditioned volume
- 3. Packaged volume (the number of packages is also given).

The following sections explain what these volumes represent and why they are quantified.

Reported volume

For wastes that exist at the Inventory stock date of 1 April 2022 the reported volume is the volume they take up. It is the volume the wastes occupy inside the tanks, vaults, silos and drums in which they are contained. Most wastes are in an untreated or partly treated form, while some have already been processed or conditioned for disposal or longer-term storage.

For wastes that will arise in the future, the reported volume is the volume that waste producers forecast will be generated. Most of the activity already exists (e.g. in reactor structures), but will only arise as waste during the decommissioning of nuclear facilities and site clean-up. Other radioactive waste - that from future planned operations - has yet to be produced.

In general the reported volumes of future arisings reflect current individual waste stream management practices. Hence where new waste is being conditioned directly it arises, the reported volume is also the conditioned volume.

The volumes of future waste arisings are given for financial years April to March. For simplicity, the financial year April 2022 to March 2023, for example, is referred to as '2022'. The period April 2023 to March 2028, is referred to, for example, as '2023-2027'.

A reliable inventory of existing waste stocks and forecast future arisings is required for planning waste handling, storage, transport and capacity of waste processing facilities.

Conditioned volume

It is often necessary to mix waste with an 'immobilising medium', to create a solid, stable wasteform. This is done to package wastes for safe long-term management through storage or disposal. The immobilising medium may be a cement-based material, glass or polymer. This 'conditioning' helps to reduce the hazards posed by the waste. The conditioned volume is the volume of the 'wasteform' (waste plus immobilising medium; also called the 'container payload') within the package (see Figure A1).

If the volume of waste loaded into each container for conditioning isn't specified, it is assumed to be equal to the payload of the container. This assumption is made in order that total conditioned volumes can be reasonably estimated.

Before being immobilised suitable waste may be treated in a way that changes its volume (e.g. compaction). This is accounted for in the conditioned volume.

Waste that is treated to remove its activity so that it is out-of-scope, or waste that is incinerated, does not appear in conditioned volumes.

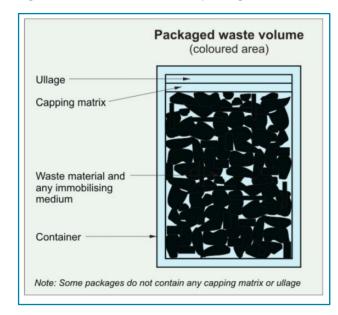
Where wastes are not conditioned in disposal packages, a nominal conditioned volume is given in the Inventory that is equal to the container payload.

Conditioned volume is used in the development of safety cases for waste storage and disposal facilities.

Packaged volume

Waste is placed into packages for long-term management. In most cases this involves conditioning. The packaged volume is the total volume taken up by the waste, the immobilising medium and the waste container (see Figure A1). Typically, the packaged volume is between 20% and 50% greater than the conditioned volume, depending on the type of container. The number of waste packages is also given in the Inventory¹.

Figure A1: Illustration of packaged volume



The packaged volume represents the final waste volume. Together with the number of packages it provides important information used to plan the size of new disposal and long-term storage facilities.

Waste that is treated to remove its activity so that it is out-of-scope or waste that is incinerated does not appear in packaged volumes.

The conditioned volume applies to the volume of waste material and immobilising medium and excludes any capping matrix, ullage and container volume.

No data are compiled on packaging that may be associated with LLW and VLLW suitable for landfill disposal. Such lightly contaminated waste does not require the same degree of engineered protection provided by the LLWR and the Dounreay LLW facility. Package numbers are not reported, but a nominal packaged volume is given that is the same as the reported volume.

¹ Assumptions have been made for the calculation of total packages for waste streams where waste producers have not specified the type of package. Operational and early stage decommissioning ILW would go into 500-litre drums, or for large waste items 4m ILW boxes (capacity 11 m³). Final stage decommissioning ILW will go into 4m boxes. All LLW is assumed to go into half-height ISO containers (nominal capacity 15.6 m³). These assumptions are made in order that the total number of packages and total packaged volume can be reasonably estimated.

Volume uncertainty

Inventory waste volumes are estimates based on the best information available to waste producers at the stock date. There may be difficulties or impracticalities in accurately measuring or calculating waste volumes; for example how much sludge is held in a storage tank or how much radioactive structural concrete will result from decommissioning a building. Understanding the uncertainties in waste volumes is important in supporting effective waste management planning.

Uncertainty in reported volumes in the 2022 Inventory is quantified by lower and upper factors for stocks and forecast future arisings. In general uncertainties are lower for waste stocks and near-term future arisings, and higher for longer-term arisings particularly those from facility decommissioning and site clean-up.

Overall the uncertainties in conditioned volumes and packaged volumes are expected to be higher than for reported volumes. This is due to packaging schemes often still being under development, particularly for decommissioning wastes.

The Inventory does not record uncertainties in the quantities of nuclear materials, but in general these are very low. Detailed records are kept of all nuclear materials that are received and processed at nuclear sites; these records are the basis for nuclear materials accountancy. International safeguards inspectors from the International Atomic Energy Agency (IAEA) regularly monitor how civil nuclear materials are handled and accounted for. This verification provides an overview of the systems that keep track of civil nuclear material and the records of the quantities involved.

Physical and chemical composition of wastes

Information is collected on physical items that make up the waste and the metal, organic and inorganic components, and any hazardous substances and non-hazardous pollutants.

Waste groups

Radioactive wastes arise in a variety of chemical and physical forms. Waste can range from large solid items that are relatively inert to chemically reactive sludges and liquids. These different forms of waste may need separate management arrangements that include conditioning and packaging solutions appropriate for their properties.

Hence waste streams in the Inventory have been divided into broad waste groups to inform the development of strategies for managing these wastes. These groups are listed in Table 2.1. They are based on those used in the document 'An Overview of NDA Higher Activity Waste'². They have, however, also been extended to include all waste streams in the Inventory.

Most 2022 Inventory waste streams can be assigned to a single waste group, although some streams contain wastes that fall into more than one group.

² Nuclear Decommissioning Authority, "An Overview of NDA Higher Activity Waste," Ref. 23366104, November 2015.

Table 2.1: Designated waste groups

Activated metals	Flocs	Mixed wastes ⁽¹⁾	
Activated other materials	Fuel cladding & miscellaneous wastes	Oils and other fluids	
Asbestos and other insulation materials	Fuel element debris	Organic ion exchange materials	
Concrete & rubble	Fuels & uranium residues	Plutonium contaminated material (PCM)	
Conditioned waste	HLW	Raffinate	
Contaminated metals	Graphite	Sludges	
Contaminated other materials	Inorganic ion exchange material	Soil	
Desiccant & catalysts	Miscellaneous contaminated materials	Uranium and thorium contaminated material	

⁽¹⁾ Comprises a mix of activated and contaminated materials.

Radioactivity and radionuclide composition of wastes

Information is collected on the average concentrations of radionuclides and total activity in waste, and on the uncertainty in these values.

Radioactivity

Radioactivity is the spontaneous splitting of unstable atomic nuclides, with release of energy through emission of one or more sub-atomic particles and/or radiation. Unstable atomic nuclides may be naturally occurring or man-made. Unstable nuclides are known as radionuclides (also called radioisotopes), and the transformation process is known as radioactive decay. Each radionuclide has a unique half-life, which is the time required for one half of the atoms to decay. Half-lives vary enormously, from a fraction of a second to billions of years.

Radionuclides

Atomic nuclei are distinguished by their mass and atomic number. Several hundred different radionuclides are produced in nuclear reactors. Many are of short radioactive half-life and so decay completely or to very low levels before they can appear in wastes. Radionuclides are specified by the symbol of their chemical element and their atomic mass. For example, chlorine-36 is the radioactive nuclide of chlorine and has an atomic mass of 36. Some radionuclides exist in a metastable state (a metastable state is a higher energy state. Some radionuclides can exist in more than one energy state, with different radioactive properties): this is indicated by a suffix 'm' or 'n' (e.g. silver-110m).

The inventory reports information on 114 radionuclides that have the potential to impact on the safe handling, transport, storage and disposal of radioactive waste generated. Not all of these 114 radionuclides will exist in every waste stream.

Radioactivity uncertainty

The Inventory quantifies uncertainty in reported average radionuclide activity concentrations by using a double letter band (e.g. BC). The first letter indicates the limit on the upper (+) side and the second letter indicates the limit on the lower (-) side. These limiting values approximate to the 5% and 95% levels on the cumulative distributions of activity. Therefore there is a 5% probability of the specific activity being less than the lower limit. There is also a 95% probability of the activity being less than the upper limit³. The uncertainty bands are shown in Table 2.2. Upper and lower estimates for activity are derived by using these factors with the reported average activity concentrations.

Table 2.2 Radionuclide specific activity uncertainty bands

Band (Upper & Lower)	Uncertainty factor
A	1.5
В	3
С	10
D	100
Е	1000

³ Bands reported are those that give limiting values on the cumulative distribution, no greater than the 5% level and no less than the 95% level. This is due to only five uncertainty bands being available.

3 WASTE VOLUMES FOR UK

This section presents waste volumes and package numbers for High Level Waste (HLW), Intermediate Level Waste (ILW), Low Level Waste (LLW) and Very Low Level Waste (VLLW), and in total, for the UK as a whole.

Information is given in two tables, listed below.

Contents	Table
All UK wastes	3.1 & 3.2

Table 3.1 gives reported waste volumes at 1 April 2022 and estimated for future time periods.

Table 3.2 gives the numbers of packages, packaged volumes and conditioned volumes existing at 1 April 2022. It also gives the numbers of packages, packaged volumes and conditioned volumes once all wastes at 1 April 2022 and estimates for future arisings have been packaged. LLW package numbers exclude those streams suitable for landfill disposal, as the Inventory does not compile information on waste packaging for this disposal route.

Table 3.1: All UK wastes

Reported volume at 1 April 2022 and for future arisings (m³) (1)

	HLW	ILW ⁽³⁾	LLW	VLLW	Total
Total	1,670	249,000	1,580,000	2,750,000	4,580,000
At 1.4.2022	1,990	102,000	32,100	1,490	137,000
Total future arisings	See Note 2	148,000	1,550,000	2,750,000	4,450,000
Arisings 2022-2029	See Note 2	14,200	226,000	88,800	329,000
Arisings 2030-2039	54.0	13,500	188,000	83,200	285,000
Arisings 2040-2059	0	27,100	297,000	399,000	723,000
Arisings 2060-2099	0	59,700	541,000	1,160,000	1,760,000
Arisings post-2100	0	33,000	299,000	1,020,000	1,350,000

- (1) Volumes are those reported by the waste producers. Reported volumes are for untreated or partly treated wastes, apart from wastes that are conditioned (i.e. waste streams with a /C in the identifier) where the conditioned volume is reported.
- (2) From 1.4.2022 there is a net decrease in the reported volume of HLW. This is because accumulated Highly Active Liquor (HAL) is being conditioned, which reduces its volume by about two-thirds. It is also because vitrified HLW is being exported to overseas customers. Thus, the volume of 1,990 m³ at 1.4.2022 is expected to fall by 315 m³, to 1,670 m³, by 2031. This is when all HAL (plus insoluble fission products (IFP) residues and contaminated plant items) is expected to be conditioned.
- (3) ILW includes 12,600 m³ of waste that is expected to become LLW as a result of decontamination or decay storage. This comprises 1,440 m³ at 1.4.2022 and 11,200 m³ for future arisings.

Table 3.2: All UK wastes

Number of packages, packaged and conditioned volumes (m³)

	HLW	ILW ⁽²⁾	LLW	VLLW (4)	Total
At 1.4.2022 ⁽¹⁾					
Number of packages	6,191	69,894	1,260	0	77,345
Packaged volume	1,210	48,000	7,600	0	56,800
Conditioned volume	929	38,500	7,120	0	46,500
When all wastes at 1.4.2022 a	and future ari	sings are pac	kaged ⁽³⁾		
Number of packages	7,520	282,000	19,900	0	310,000
Packaged volume	1,470	496,000	1,340,000	2,610,000	4,450,000
Conditioned volume	1,130	384,000	1,320,000	2,610,000	4,320,000

- (1) Package numbers and packaged volumes at 1.4.2022 are for those wastes that had been conditioned (i.e. waste streams with a /C in the identifier).
- (2) ILW packages at 1.4.2022 include 1,938 1803-type drums at Trawsfynydd. These drums are expected to be overpacked in 4m boxes (6 drums per box). The conditioned volume of these wastes at 1.4.2022 is for the overpacked waste. The number of packages given for all wastes includes these 4m boxes and not the number of drums.
- (3) All wastes at 1.4.2022 and future arisings includes 489 packages, 10,400 m³ packaged volume and 9,240 m³ conditioned volume of ILW that is expected to become LLW as a result of decontamination or decay storage.
- (4) Information on VLLW packaging is not compiled.

4 WASTE VOLUMES BY REGION

This section presents waste volumes and package numbers for HLW, ILW LLW and VLLW, and in total, for wastes located in England, Scotland and Wales.

Some of the radioactive wastes located in England (at Sellafield) are from the reprocessing of spent fuel from reactors in Scotland and Wales.

Information is given in a number of tables, listed below.

Contents	Table
Wastes from sites in England	4.1 & 4.2
Wastes from sites in Scotland	4.3 & 4.4
Wastes from sites in Wales	4.5 & 4.6

Tables 4.1, 4.3 and 4.5 give waste volumes at 1 April 2022 and estimated for future time periods.

Tables 4.2, 4.4, and 4.6 give the numbers of packages, packaged volumes and conditioned volumes existing at 1 April 2022, and the numbers of packages, packaged volumes and conditioned volumes once all wastes at 1 April 2022 and estimated future arisings have been packaged. LLW package numbers exclude those streams suitable for landfill disposal, as the Inventory does not compile information on waste packaging for this disposal route.

All wastes from decommissioned nuclear-powered submarines, which are berthed at Devonport and Rosyth, are included in wastes from sites in England.

Table 4.1: Wastes at sites in England
Reported volume at 1 April 2022 and estimated for future arisings (m³) (1)

	HLW	ILW (3)	LLW	VLLW	Total
Total	1,670	209,000	1,230,000	2,750,000	4,190,000
At 1.4.2022	1,990	89,400	10,800	1,490	104,000
Total future arisings	See Note 2	120,000	1,220,000	2,750,000	4,080,000
Arisings 2022-2029	See Note 2	12,800	198,000	87,900	298,000
Arisings 2030-2039	54.0	12,100	123,000	83,200	218,000
Arisings 2040-2059	0	26,900	278,000	399,000	704,000
Arisings 2060-2099	0	46,800	405,000	1,160,000	1,610,000
Arisings post-2100	0	21,200	213,000	1,020,000	1,250,000

- (1) Volumes are those reported by the waste producers. Reported volumes are for untreated or partly treated wastes, apart from wastes that are conditioned (i.e. waste streams with a /C in the identifier) where the conditioned volume is reported.
- (2) From 1.4.2022 there is a net decrease in the reported volume of HLW. This is because accumulated HAL is being conditioned, which reduces its volume by about two-thirds. It is also because vitrified HLW is being exported to overseas customers. Thus, the volume of 1,990 m³ at 1.4.2022 is expected to fall by 315 m³, to 1,670 m³, by 2031. This is when all HAL (plus IFP residues and contaminated plant items) is expected to be conditioned.
- (3) ILW includes 12,200 m³ of waste that is expected to become LLW as a result of decontamination or decay storage. This comprises 1,110 m³ at 1.4.2022 and 11,100 m³ for future arisings.

Table 4.2: Wastes at sites in England
Number of packages, packaged and conditioned volumes (m³)

	HLW	ILW	LLW	VLLW (3)	Total
At 1.4.2022 ⁽¹⁾					
Number of packages	6,191	61,569	968	0	68,728
Packaged volume	1,210	37,100	1,910	0	40,200
Conditioned volume	929	31,100	1,790	0	33,800
When all wastes at 1.4.2022	risings are pa	ckaged ⁽²⁾			
Number of packages	7,520	262,000	7,270	0	277,000
Packaged volume	1,470	434,000	928,000	2,610,000	3,970,000
Conditioned volume	1,130	334,000	919,000	2,610,000	3,860,000

⁽¹⁾ Package numbers and packaged volumes at 1.4.2022 are for those wastes that had been conditioned (i.e. waste streams with a /C in the identifier).

⁽²⁾ This includes 436 packages, 9,370 m³ packaged volume and 8,450 m³ conditioned volume of ILW that is expected to become LLW. The change from ILW to LLW will be a result of decontamination or decay storage.

⁽³⁾ Information on VLLW packaging is not compiled.

Table 4.3: Wastes at sites in Scotland
Reported volume at 1 April 2022 and estimated for future arisings (m³) (1)

	ILW ⁽²⁾	LLW	VLLW	Total
Total	25,900	240,000	1,030	267,000
At 1.4.2022	9,300	21,100	0	30,400
Total future arisings	16,600	219,000	1,030	237,000
Arisings 2022-2029	1,420	26,400	920	28,800
Arisings 2030-2039	1,370	64,700	0	66,100
Arisings 2040-2059	123	18,800	0	18,900
Arisings 2060-2099	8,280	90,600	110	99,000
Arisings post-2100	5,420	18,800	0	24,200

⁽¹⁾ Volumes are those reported by the waste producers. Reported volumes are for untreated or partly treated wastes, apart from wastes that are conditioned (i.e. waste streams with a /C in the identifier) where the conditioned volume is reported.

Table 4.4: Wastes at sites in Scotland
Number of packages, packaged and conditioned volumes (m³)

	ILW	LLW	VLLW (3)	Total
At 1.4.2022 ⁽¹⁾				
Number of packages	6,227	292	0	6,519
Packaged volume	3,910	5,690	0	9,600
Conditioned volume	3,410	5,330	0	8,740
When all wastes at 1.4.2022 and for	uture arisings a	re packaged ⁽²⁾		
Number of packages	18,700	9,100	0	27,800
Packaged volume	39,300	276,000	1,030	316,000
Conditioned volume	32,000	265,000	1,030	298,000

⁽¹⁾ Package numbers and packaged volumes at 1.4.2022 are for those wastes that had been conditioned (i.e. waste streams with a /C in the identifier).

⁽²⁾ ILW includes 417 m³ of waste that is expected to become LLW as a result of decontamination or decay storage. This comprises 336 m³ at 1.4.2022 and 81.2 m³ for future arisings.

⁽²⁾ This include 52 packages, 1,020 m³ packaged volume and 784 m³ conditioned volume of ILW that is expected to become LLW. The change from ILW to LLW will be a result of decontamination or decay storage.

⁽³⁾ Information on VLLW packaging is not compiled.

Table 4.5: Wastes at sites in Wales

Reported volume at 1 April 2022 and estimated for future arisings (m³) (1)

	ILW	LLW	VLLW	Total
Total	14,100	115,000	0	129,000
At 1.4.2022	3,080	269	0	3,350
Total future arisings	11,100	115,000	0	126,000
Arisings 2022-2029	22.7	1,710	0	1,730
Arisings 2030-2039	0	394	0	394
Arisings 2040-2059	0	79.1	0	79.1
Arisings 2060-2099	4,650	45,700	0	50,300
Arisings post-2100	6,380	67,100	0	73,500

⁽¹⁾ Volumes are those reported by the waste producers. Reported volumes are for untreated or partly treated wastes, apart from wastes that are conditioned (i.e. waste streams with a /C in the identifier) where the conditioned volume is reported.

Table 4.6: Wastes at sites in Wales

Number of packages, packaged and conditioned volumes (m³)

	ILW ⁽²⁾	LLW	VLLW (3)	Total
At 1.4.2022 ⁽¹⁾				
Number of packages	2,098	0	0	2,098
Packaged volume	6,940	0	0	6,940
Conditioned volume	3,920	0	0	3,920
When all wastes at 1.4.2022 a	nd future arising	s are packaged		
Number of packages	1,390	3,580	0	4,970
Packaged volume	22,300	140,000	0	163,000
Conditioned volume	18,300	136,000	0	154,000

⁽¹⁾ Package numbers and volumes at 1.4.2022 are for those wastes that had been conditioned (i.e. waste streams with a /C in the identifier).

⁽²⁾ ILW packages at 1.4.2022 include 1,938 1803-type drums at Trawsfynydd. These drums are expected to be overpacked in 4m boxes (6 drums per box). The number of packages given for all wastes includes these 4m boxes and not the number of drums

⁽³⁾ Information on VLLW packaging is not compiled.

5 WASTE VOLUMES FOR EACH ORGANISATION

This section provides a breakdown of waste volumes and package numbers for HLW, ILW and LLW for each waste producing organisation. The organisations are:

- Nuclear Decommissioning Authority (NDA) (includes Sellafield Ltd, Magnox Ltd, Nuclear Waste Services – Low Level Waste Repository, Dounreay Site Restoration Ltd and Springfields Fuels Ltd)
- Ministry of Defence (MOD) (includes contractor owned and contractor operated sites)
- EDF Energy
- NNB Generation Company Ltd (NNB GenCo (HPC))
- United Kingdom Atomic Energy Authority (UKAEA)
- GE Healthcare Ltd
- Urenco (comprising Urenco Nuclear Stewardship (UNS), Urenco UK (UUK) and Urenco Chemical Plants (UCP))
- Minor waste producers.

Information is given in a number of tables, listed below.

Site owner	Table
All site owners (all wastes)	5.1
All site owners (wastes at 1.4.2022)	5.2
All site owners (all wastes when packaged)	5.3

Table 5.1 gives waste volumes at 1 April 2022 and a consolidated estimate for future arisings.

Table 5.2 gives the numbers of packages, packaged volumes and conditioned volumes existing at 1 April 2022.

Table 5.3 gives the numbers of packages, packaged volumes and conditioned volumes once all wastes at 1 April 2022 and future arisings have been packaged. LLW package numbers exclude those streams suitable for landfill disposal, as the Inventory does not compile information on waste packaging for this disposal route.

Table 5.1: Reported volume at 1 April 2022 and estimated for future arisings (m³) (1)

Site owner		HLW	ILW	LLW	VLLW	Total
	Total	1,670	211,000	1,380,000	2,730,000	4,320,000
NDA	1.4.2022	1,990	93,100	28,700	1,340	125,000
	Future arisings	See Note 2	117,000	1,350,000	2,730,000	4,200,000
	Total	0	8,290	43,600	0	51,900
Ministry of Defence	1.4.2022	0	4,640	1,570	0	6,210
	Future arisings	0	3,650	42,100	0	45,700
	Total	0	24,400	131,000	0	156,000
EDF Energy	1.4.2022	0	3,640	681	0	4,320
	Future arisings	0	20,800	131,000	0	151,000
	Total	0	1,200	8,770	0	9,970
NNB GenCo (HPC) Ltd	1.4.2022	0	0	0	0	0
	Future arisings	0	1,200	8,770	0	9,970
United Kingdom	Total	0	167	4,700	0	4,860
Atomic Energy	1.4.2022	0	0	238	0	238
Authority	Future arisings	0	167	4,460	0	4,620
	Total	0	420	2,130	0	2,550
GE Healthcare	1.4.2022	0	361	175	0	535
	Future arisings	0	59.5	1,960	0	2,020
	Total	0	14.7	9,550	19,500	29,100
Urenco	1.4.2022	0	0.7	420	130	551
	Future arisings	0	14.0	9,130	19,400	28,500
	Total	0	4,280	3,350	28.0	7,660
Minor waste producers	1.4.2022	0	25.4	262	20.0	307
	Future arisings	0	4,250	3,090	8.0	7,350
	Total	1,670	249,000	1,580,000	2,750,000	4,580,000
Total	1.4.2022	1,990	102,000	32,100	1,490	137,000
	Future arisings	See Note 2	148,000	1,550,000	2,750,000	4,450,000

⁽¹⁾ Volumes are those reported by the waste producers. Reported volumes are for untreated or partly treated wastes, apart from wastes that are conditioned (i.e. waste streams with a /C in the identifier) where the conditioned volume is reported.

⁽²⁾ From 1.4.2022 there is a net decrease in the reported volume of HLW. This is because accumulated HAL is being conditioned, which reduces its volume by about two-thirds. It is also because vitrified HLW is being exported to overseas customers. Thus, the volume of 1,990 m³ at 1.4.2022 is expected to fall by 315 m³, to 1,670 m³, by 2031. This is when all HAL (plus IFP residues and contaminated plant items) is expected to be conditioned.

Table 5.2: Wastes at 1 April 2022

Number of packages, packaged volume and conditioned volume (1)

Site owner	At 1.4.2022	HLW	ILW ⁽²⁾	LLW	VLLW	Total
	Number of packages	6,191	69,839	1,260	0	77,290
NDA	Packaged volume (m³)	1,210	47,900	7,580	0	56,700
	Conditioned volume (m³)	929	38,400	7,100	0	46,500
	Number of packages	0	0	0	0	0
Ministry of Defence	Packaged volume (m³)	0	0	17.6	0	17.6
	Conditioned volume (m³)	0	0	16.5	0	16.5
	Number of packages	0	55	0	0	55
EDF Energy	Packaged volume (m³)	0	79.5	0	0	79.5
	Conditioned volume (m ³)	0	27.0	0	0	27.0
	Number of packages	0	0	0	0	0
NNB GenCo (HPC) Ltd	Packaged volume (m³)	0	0	0	0	0
	Conditioned volume (m³)	0	0	0	0	0
United Kingdom	Number of packages	0	0	0	0	0
Atomic Energy	Packaged volume (m³)	0	0	0	0	0
Authority	Conditioned volume (m ³)	0	0	0	0	0
	Number of packages	0	0	0	0	0
GE Healthcare	Packaged volume (m³)	0	0	0	0	0
	Conditioned volume (m³)	0	0	0	0	0
	Number of packages	0	0	0	0	0
Urenco	Packaged volume (m³)	0	0	0	0	0
	Conditioned volume (m³)	0	0	0	0	0
	Number of packages	0	0	0	0	0
Minor waste producers	Packaged volume (m³)	0	0	0	0	0
,	Conditioned volume (m ³)	0	0	0	0	0
	Number of packages	6,191	69,894	1,260	0	77,345
Total	Packaged volume (m³)	1,210	48,000	7,600	0	56,800
	Conditioned volume (m³)	929	38,500	7,120	0	46,500

⁽¹⁾ Package numbers and packaged volumes are for those wastes that had been conditioned (i.e. waste streams with a /C in the identifier).

⁽²⁾ ILW packages from NDA include 1,938 type 1803 drums. These drums are expected to be overpacked in 4m boxes (6 drums per box).

Table 5.3: All wastes when packaged Number of packages, packaged volume and conditioned volume

Site owner	When all wastes at 1.4.2022 and future arisings are packaged	HLW	ILW	LLW	VLLW (1)	Total
	Number of packages	7,520	264,000	16,100	0	288,000
NDA	Packaged volume (m³)	1,470	441,000	1,230,000	2,590,000	4,260,000
	Conditioned volume (m ³)	1,130	345,000	1,210,000	2,590,000	4,150,000
	Number of packages	0	8,270	417	0	8,680
Ministry of Defence	Packaged volume (m³)	0	6,510	35,600	0	42,100
Defence	Conditioned volume (m³)	0	5,410	35,100	0	40,500
	Number of packages	0	4,290	2,960	0	7,250
EDF Energy	Packaged volume (m³)	0	42,300	57,900	0	100,000
	Conditioned volume (m³)	0	30,200	54,300	0	84,500
	Number of packages	0	5,030	371	0	5,400
NNB GenCo (HPC) Ltd	Packaged volume (m³)	0	4,160	8,240	0	12,400
(FII C) Ltd	Conditioned volume (m³)	0	2,500	7,780	0	10,300
United	Number of packages	0	44.0	56.0	0	100
Kingdom Atomic Energy	Packaged volume (m³)	0	479	4,280	0	4,760
Authority	Conditioned volume (m³)	0	203	4,210	0	4,410
	Number of packages	0	501	13.4	0	514
GE Healthcare	Packaged volume (m³)	0	288	2,180	0	2,470
	Conditioned volume (m³)	0	235	2,160	0	2,400
	Number of packages	0	6.0	3.0	0	9.0
Urenco	Packaged volume (m³)	0	3.0	5,060	19,400	24,500
	Conditioned volume (m³)	0	2.5	5,060	19,400	24,500
	Number of packages	0	122	8.0	0	130
Minor waste producers	Packaged volume (m³)	0	1,200	795	15.1	2,010
F. 00.00010	Conditioned volume (m³)	0	1,120	786	15.1	1,920
	Number of packages	7,520	282,000	19,900	0	310,000
Total	Packaged volume (m³)	1,470	496,000	1,340,000	2,610,000	4,450,000
	Conditioned volume (m³)	1,130	384,000	1,320,000	2,610,000	4,320,000

⁽¹⁾ Information on VLLW packaging is not compiled.

6 SITE INFORMATION SHEETS

The following information sheets provide an overview of radioactive wastes for each producing site in the UK:

Site	Page	Site	Page	Site	Page	Site	Page
Amersham	28	HMNB Devonport	49	Hinkley Point B	70	Sellafield	91
Aldermaston/Burghfield	30	Dounreay	51	Hinckley Point C	72	Sizewell A	94
Barrow-in-Furness	33	Donnington	54	Hunterston A	74	Sizewell B	96
Berkeley	35	Dungeness A	56	Hunterston B	76	Springfields	98
Bradwell	37	Dungeness B	58	LLWR	78	Torness	101
Capenhurst	39	Hartlepool	60	NRTE Vulcan	80	Trawsfynydd	103
Chapelcross	41	Harwell	62	Oldbury	82	Winfrith	105
HMNB Clyde	43	Heysham 1	64	HMNB Portsmouth	84	Wylfa	107
Culham	45	Heysham 2	66	Rosyth and Devonport (submarines)	86	Minor waste producers	109
RRSL Derby	47	Hinkley Point A	68	Rosyth	89		

Each information sheet contains the following information:

- **Background** general information about the nature of the site
- Scenario the basis of future radioactive waste estimates
- Waste volume a table giving the reported volumes for each waste type at 1 April 2022, in future arisings and in total; and the total packaged volume and number of packages once all waste has been packaged for long-term management or disposal
- Profile of waste arisings a chart showing the volume of future arisings against time for each waste type
- Radioactivity a table showing total activity for each waste type at 1 April 2022, and at 2050 and 2200. Total activity is the sum of all reported radionuclide activities and includes the activities of short-lived daughter products.

AMERSHAM (GE HEALTHCARE)

Background

With a base at Amersham in UK GE Healthcare is a supplier of radioisotopes for medical, research and industrial uses.

Scenario

Manufacturing operations at Amersham ceased in 2019, with the site moving into a programme of full decommissioning and site clearance planned to take 7-10 years.

The tritium ILW liability at Cardiff has been transferred to a tritium store on the Amersham site.

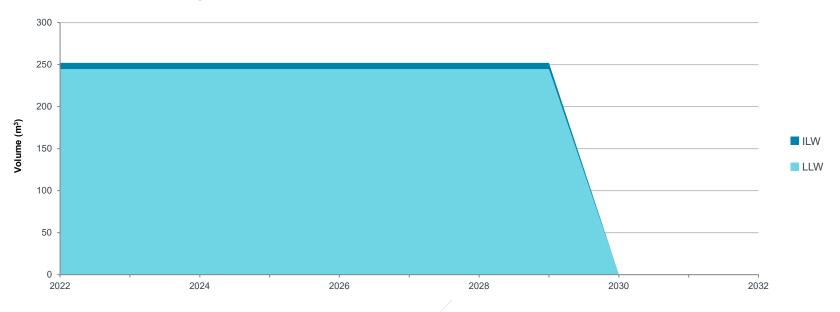
The change in business direction results in future radioactive waste arisings being estimated up to 2030. Volumes are based on inventories of wastes in stock and decommissioning waste estimates.

Waste volume

Marks true	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings		
Waste type 1 Apr	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages
ILW ⁽¹⁾	361	59.5	420	288	502
LLW	175	1,960	2,130	2,180	14
VLLW	0	0	0	0	0
Total	535	2,020	2,550	2,470	516

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Radioactivity

Waste category	Total activity (TBq)				
	At 1.4.2022	At 1.4.2050	At 1.4.2200		
ILW	11,000	4,800	360		
LLW	1.7	2.5	0.57		
VLLW	0	0	0		
Total	11,000	4,800	360		

ALDERMASTON AND BURGHFIELD (MOD)

Background

The primary purpose of Atomic Weapons Establishment (AWE) is to support UK nuclear security needs. UK Government policy is to maintain Trident and the nuclear deterrence programme to underpin national security and deter credible threats to the nation. In the Government's National Security Strategy and Strategic Defence and Security Review 2015, the warhead system is described as not needing replacement until at least the late 2030s. In the meantime the Government will continue to invest significantly in AWE to maintain the facilities and skills required to develop a replacement warhead if required. AWE's nuclear facilities are located at Aldermaston and Burghfield. Assembly and disassembly of nuclear weapons are the principal nuclear licensed activities that take place at Burghfield. The Aldermaston site is primarily engaged with research, development, manufacturing and storage of weapon components. For the purposes of the Inventory, Aldermaston and Burghfield are considered as a single entity as all radioactive waste storage and disposal is coordinated from Aldermaston.

Scenario

The inventory includes radioactive waste liabilities from legacy production and research facilities; and waste from the decommissioning of those legacy nuclear facilities including some land remediation. The inventory also qualifies the future generation associated with current operations, future development and associated nuclear decommissioning activity. As AWE's role directly reflects Government Policy for the nuclear deterrent, no viable site end point is currently determinable. For inventory planning purposes, a notional "end of operations" date has been assumed. This is the date when all currently constructed nuclear facilities are assumed to be decommissioned and the associated higher activity waste has been disposed. This notional date is 2080⁴.

⁴ 2080 is a notional date for planning purposes and a realistic quantification of volumes over a specific time, this is in no way an indication of the cessation of the UK's strategic capability at a point of time in the future.

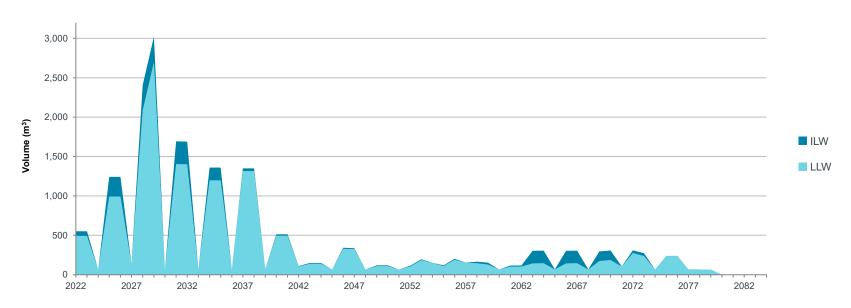
Waste volume

The sites generate ILW and LLW, mostly plutonium contaminated materials. Future decommissioning is the major contributor to arisings.

Wests to use	Reported volume at	Reported future arisings (m³)	All wastes at 1 April 2022 and future arisings			
Waste type	1 April 2022 (m³)		Reported volume (m³)	Packaged volume (m³)	Number of packages	
ILW (1)	4,590	3,450	8,040	5,070	7,680	
LLW	1,330	22,300	23,700	15,100	191	
VLLW	0	0	0	0	0	
Total	5,910	25,800	31,700	20,200	7,880	

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Radioactivity

Waste category	Total activity (TBq)		
	At 1.4.2022	At 1.4.2050	At 1.4.2200
ILW	1,400	1,700	1,700
LLW	2.8	5.9	4.7
VLLW	0	0	0
Total	1,400	1,700	1,700

BARROW-IN-FURNESS (BAESM)

Background

At Barrow-in-Furness in Cumbria, BAE Systems Marine Ltd builds, tests and commissions nuclear-powered submarines in support of the Ministry of Defence (MOD) nuclear submarine programme.

Scenario

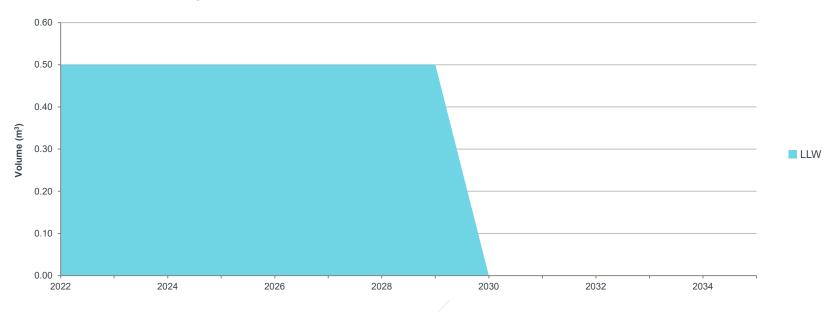
The site generates only small quantities of radioactive waste associated with the commissioning of submarine nuclear reactors.

Waste volume

The site is forecast to produce only small quantities of LLW.

Waste Reported volume at		Reported future	All wastes at 1 April 2022	All wastes at 1 April 2022 and future arisings			
type 1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages			
ILW	0	0	0 /	0	0		
LLW	0	4	4	0	0		
VLLW	0	0	0	0	0		
Total	0	4	4	0	0		

Profile of waste arisings



Radioactivity

Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	0		0	0		
LLW	0		NE	NE		
VLLW	0		0	0		
Total	0		0	0		

BERKELEY (NDA)

Background

Berkeley is a twin-reactor Magnox nuclear power station on the west coast of England in Gloucestershire. Berkeley operated from 1962 to 1989. The station is now shut down and is being decommissioned.

Active handling facilities at Berkeley (previously part of Berkeley Centre) used to provide research and development facilities including a post-irradiation examination service. Operations ended in 2005, and the facilities have been decommissioned.

Scenario

The decommissioning strategy for the Magnox sites is deferred dismantling of the reactors, comprising three phases – Defuelling and Care & Maintenance Preparations; Care and Maintenance; Final Site Clearance.

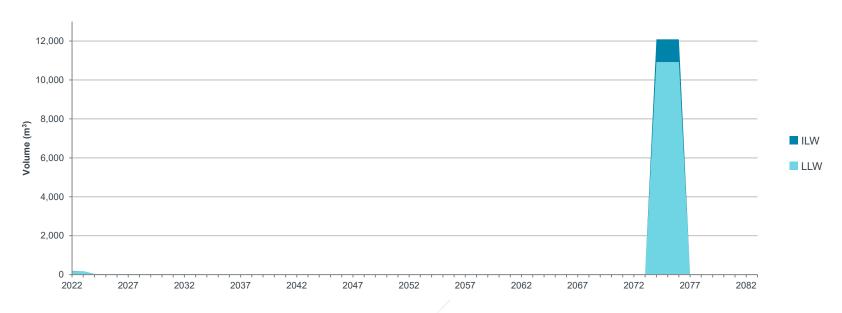
Berkeley has been defuelled, and Care and Maintenance Preparations are scheduled to be completed in 2036. The period of Care and Maintenance extends from 2036 to 2074 and Final Site Clearance from 2070 to 2079.

Waste volume

Stocks of ILW and LLW are from legacy operations and on-going decommissioning. Future arisings are principally from final site clearance.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings		
type 1 April 2022 (m³)	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages
ILW	1,550	3,520	5,060	8,320	690
LLW	6.11	33,400	33,400	30,400	38
VLLW	0	0	0	0	0
Total	1,550	36,900	38,400	38,800	727

Profile of waste arisings



Radioactivity

Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	780		250	630		
LLW	0.14		0.41	1.2		
VLLW	0		0	0		
Total	780		250	630		

BRADWELL (NDA)

Background

Bradwell is a twin-reactor Magnox nuclear power station on the east coast of England in Essex. Bradwell operated from 1962 to 2002. The station is now shut down and is being decommissioned.

Scenario

The decommissioning strategy for the Magnox sites is deferred dismantling of the reactors, comprising of three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Final Site Clearance.

Bradwell has been defuelled, and Care and Maintenance Preparations were completed in 2018. The period of Care and Maintenance extends from 2018 to 2087 and Final Site Clearance from 2083 to 2092.

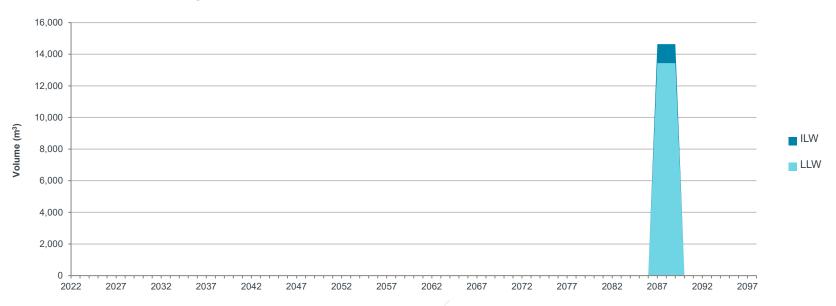
Waste volume

Stocks of ILW and LLW are from legacy operations and on-going decommissioning. Future arisings are principally from final site clearance.

Waste	aste Reported volume at Reported future		All wastes at 1 April 2022 and future arisings		
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages
ILW (1)	255	3,610	3,870	5,200	396
LLW	285	40,500	40,800	38,000	32
VLLW	0	0	0	0	0
Total	540	44,100	44,600	43,200	428

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	1,500		630	1,000		
LLW	1.8		0.79	1.9		
VLLW	0		0	0		
Total	1,500		630	1,000		

CAPENHURST (URENCO UK)

Background

The Capenhurst site in Cheshire engages in uranium enrichment and uranics management. The site receives natural uranium hexafluoride (UF₆) for U235 enrichment in gas centrifuge plants. The enriched UF₆ is transferred off site for conversion into uranium dioxide, which is used in the fabrication of nuclear fuel and intermediate products.

Scenario

A new Tails Management Facility (TMF) is being commissioned at Capenhurst and will deconvert UF₆ tails to U₃O₈ for safer longer-term storage. The TMF will deconvert uranium tails from enrichment operations on-site, Urenco group material from overseas and the tails from Government-owned uranium by-product/legacy material from uranium enrichment. Future arisings at Capenhurst will depend on the outlook for the worldwide nuclear power industry, the commercial contracts won by the group and the installation of new enrichment capacity and decommissioning waste as facilities reach end of life. Waste volumes from the enrichment plant are estimated up to 2039. The TMF is assumed to be operational until 2049, after which the uranium oxide store is forecast to be maintained until 2119 and decommissioned by 2124.

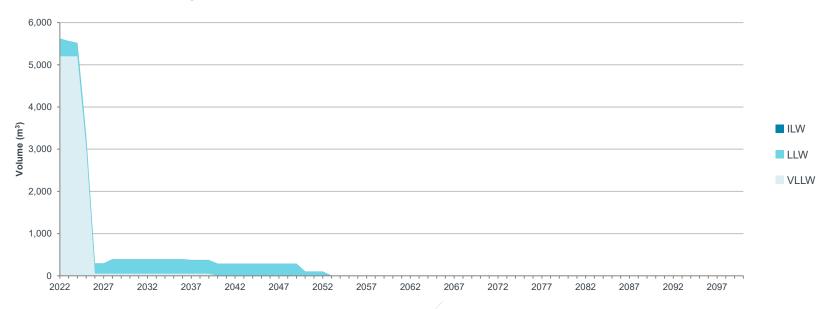
Waste volume

Uranium enrichment involves bulk chemical processing that produces a number of low level radioactive waste streams. These include filters, process residues, and other solid wastes. Future arisings also include land contamination VLLW (soil and concrete foundations).

Waste	Reported volume at Reported future		All wastes at 1 April 2022 and future arisings		
type	pe 1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages
ILW (1)	0.66	14	14.7	3.01	6
LLW	420	9,130	9,550	5,060	3
VLLW	130	19,400	19,500	19,400	Not quantified
Total	551	28,500	29,100	24,500	9

⁽¹⁾ Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	0.05		0.24	0.24		
LLW	0.03		0.88	0.89		
VLLW	<0.001		0.26	0.26		
Total	0.08		1.4	1.4		

CHAPELCROSS (NDA)

Background

Chapelcross is a four-reactor Magnox nuclear power station on the west coast of Scotland in Dumfries and Galloway. Chapelcross operated from 1959 to 2004. The station is now shut down and is being decommissioned.

Scenario

The decommissioning strategy for the Magnox sites is deferred dismantling of the reactors, comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Final Site Clearance.

Chapelcross has been defuelled, and Care and Maintenance Preparations are scheduled to be completed in 2035. The period of Care and Maintenance extends from 2035 to 2089 and Final Site Clearance from 2085 to 2095.

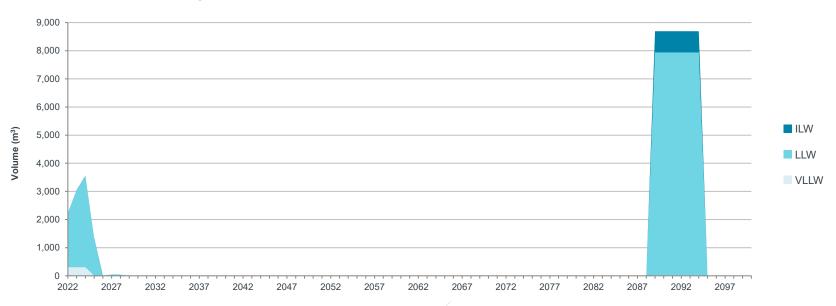
Waste volume

Stocks of ILW and LLW are from legacy operations and on-going care and maintenance preparations. Future arisings are principally from final site clearance.

Waste	aste Reported volume at Reported future		All wastes at 1 April 2022 and future arisings		
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages
ILW (1)	342	4,560	4,900	6,830	768
LLW	341	56,900	57,300	46,700	69
VLLW	0	1,030	1,030	1,030	Not quantified
Total	683	62,500	63,200	54,600	837

(1) Some packaged ILW will be disposed of as LLW

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022	At 1.4.2050	At 1.4.2200			
ILW	21,000	4,500	1,100			
LLW	1.2	3.1	1.8			
VLLW	0	<0.001	<0.001			
Total	21,000	4,500	1,100			

HMNB CLYDE (MOD)

Background

The Clyde submarine base at Faslane near Helensburgh in Dunbartonshire provides maintenance and support services for the operational UK nuclear submarines. It also provides the storage, processing, maintenance and issue of key elements of the UK's Trident Deterrent Missile System.

Scenario

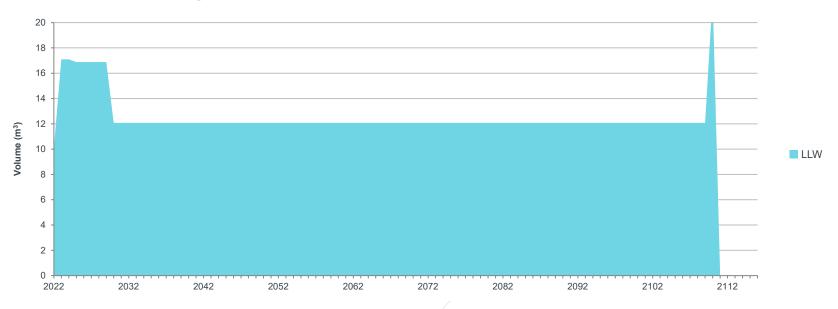
Radioactive wastes arise from weapons handling, operations at sea and the maintenance and repair of submarine nuclear propulsion systems at berth. The radioactive waste forecast is based on the predicted number of submarines home-ported at Clyde, and planned infrastructure development and decommissioning work. It is assumed that Clyde continues to operate until 2110.

Waste volume

LLW is generated from nuclear submarine reactor compartments, laboratories, waste processing areas and effluent treatment.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings		
type	type 1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages
ILW	0	0	0	0	0
LLW	21.0	1,120	1,140	19.5	1
VLLW	0	0	0	0	0
Total	21.0	1,120	1,140	19.5	1

Profile of waste arisings



Waste category	Total activity (TBq)				
	At 1.4.2022		At 1.4.2050	At 1.4.2200	
ILW	0		0	0	
LLW	< 0.001		0.001	<0.001	
VLLW	0		0	0	
Total	<0.001		0.001	<0.001	

CULHAM (UKAEA)

Background

Culham Centre for Fusion Energy (CCFE) is the UK centre for fusion research. In 1978 the site became the host to the European 'flagship' fusion project the Joint European Torus (JET). Other facilities at Culham include the Mega Amp Spherical Tokamak fusion research machine.

Scenario

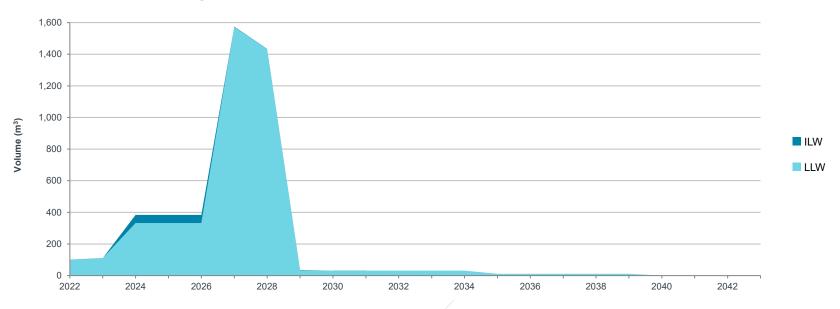
Small quantities of ILW and LLW will continue to be produced from operating the JET fusion experiment. The reference decommissioning strategy assumes operations continue to 2024 and the facility then moves immediately into decommissioning. However, the length of future operations is uncertain, and operations are also expected to continue for some time in support of ITER (a larger fusion device being constructed in France). At the time of report production there is some uncertainty over what further experiments will take place, and therefore the final inventory of the plant. There is, however, an agreed limit on the maximum neutron production from deuterium-tritium operations, which has been used to define a bounding inventory for the wastes and is likely to be fully utilised. Based on a start date of July 2024 for JET decommissioning, removal of the torus facility is programmed for completion in 2029. The Active Gas Handling System will remain operational during JET dismantling and then be fully decommissioned by September 2031, and the JET site completely cleared by the end of 2032.

The Culham site also houses UKAEA's MRF (Materials Research Facility) which will undertake research with radioactive materials and will continue to generate small amounts of radioactive waste until 2037. Future facilities are also planned for the Culham site, notably the Hydrogen 3 Advanced Technology (H3AT) facilities, which will also generate small amounts of radioactive waste until approximately 2037.

Waste volume

Waste	Waste Reported volume at type 1 April 2022 (m³)	Reported future arisings (m³)	All wastes at 1 April 202	All wastes at 1 April 2022 and future arisings		
type			Reported volume (m³)	Packaged volume (m³)	Number of packages	
ILW	0	167	167	479	44	
LLW	238	4,460	4,700	4,280	56	
VLLW	0	0	0	0	0	
Total	238	4,620	4,860	4,760	100	

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	0		2,500	0.58		
LLW	1.5		1.3	0.43		
VLLW	0		0	0		
Total	1.5		2,500	1.0		

DERBY (RRSL)

Background

Rolls Royce Submarines Ltd (RRSL) operates two nuclear licensed sites at Raynesway in Derby. Work is carried out here in support of the MOD's nuclear submarine programme. RRSL manufactures the reactors for the Navy's nuclear-powered submarines and operates the low energy Neptune reactor used to develop submarine reactor designs.

Scenario

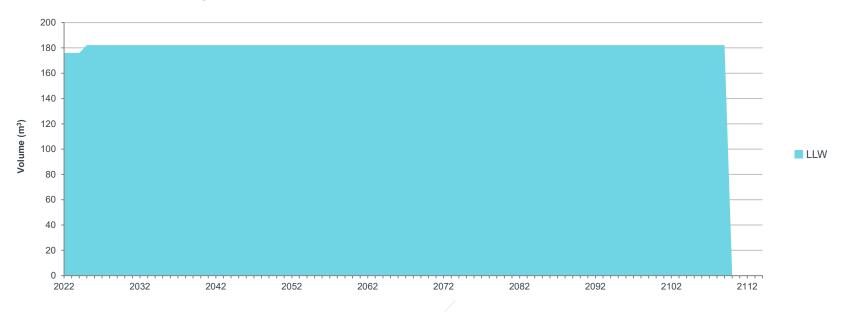
The future of the sites is inextricably linked to the future operational requirements of the submarine fleet. It is assumed that both of the nuclear licensed sites will operate at the current levels of activity until 2110.

Waste volume

LLW is produced at RRSL from facility operations.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings			
type	type 1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages	
ILW	0	0	/0	0	0	
LLW	90	16,000	16,100	15,300	0	
VLLW	0	0	0	0	0	
Total	90	16,000	16,100	15,300	0	

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	0	,	0	0		
LLW	NE		NE	NE		
VLLW	0		0	0		
Total	NE		NE	NE		

HMNB DEVONPORT (MOD)

Background

The Devonport site comprises the Naval Base (owned and operated by the MOD) and its co-located Dockyard (owned and operated by Babcock International Group plc). Devonport provides maintenance and support services for the operational UK nuclear submarine squadrons. It has the facilities to carry out operations associated with submarine refitting and defuelling. Since 2004 all UK nuclear submarine refitting work has been carried out at Devonport.

Scenario

Operational waste arisings from Devonport have been derived by extrapolation of historical data and are forecasted up to 2030. A number of nuclear-powered submarines have been taken out of service and decommissioned; twelve are stored afloat at Devonport.

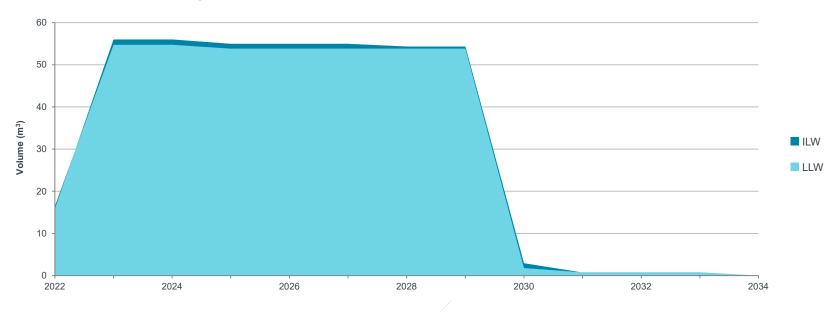
Waste volume

Most operational waste is hard and soft VLLW from nuclear repair activities.

Waste		Reported future	All wastes at 1 April 2022 and future arisings			
type		arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages	
ILW (1)	18.7	-7.28	11.4	27.3	2	
LLW	58.1	406	465	677	23	
VLLW	0	0	0	0	0	
Total	76.8	399	476	705	25	

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	1.0		0.17	0.16		
LLW	0.20		0.24	0.22		
VLLW	0		0	0		
Total	1.2		0.42	0.37		

DOUNREAY (NDA)

Background

Dounreay in Caithness was the UK centre for fast reactor research. Three reactors were built on site: the Dounreay Fast Reactor (DFR), the Prototype Fast Reactor (PFR) and the Dounreay Materials Test Reactor (DMTR). These reactors are now closed. The site also included facilities for reprocessing spent PFR fuel, Post Irradiation Examination (PIE) of fuels and the manufacture and reprocessing of Materials Testing Reactor (MTR) fuels as well as waste facilities.

Scenario

The core programme of work at Dounreay is now focused on the decommissioning, and the treatment, packaging, storage and/or disposal of wastes.

The first phase of the new LLW disposal facility (for wastes from Dounreay and the adjacent Vulcan site) has been constructed, and disposals started in 2015. Compliant waste packages are grouted on site prior to consignment for disposal. This submission assumes that LLW will be retrieved from the existing authorised LLW Pits Complex and disposed to the new LLW disposal facility. Waste will be removed from both the ILW shaft and silo. It will be characterised and packaged into a final form in a single treatment plant. An updated lifetime plan for Dounreay is in development and due for publication during 2023/24. To permit strategic planning, Dounreay has an internal site plan that predicts all redundant facilities will be decommissioned by 2049⁵.

Page 51 of 177

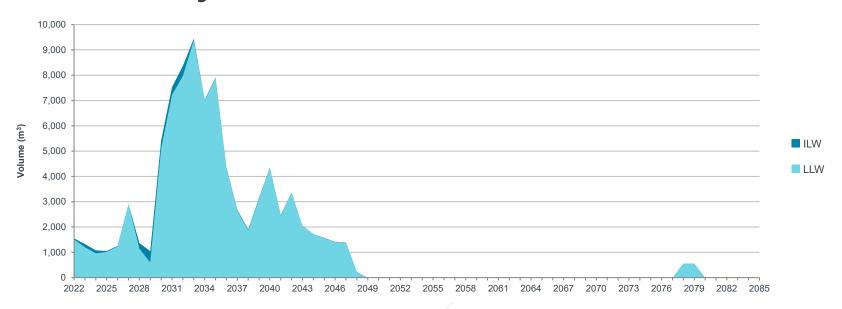
⁵ Adopted for strategic planning purposes and modelling and will be subject to revision in the next lifetime plan.

Waste volume

Stocks of ILW are from legacy operations, including cemented PFR, DFR and MTR raffinates. Stocks of LLW comprise compacted and conditioned waste from legacy operations that are in interim storage and waste from on-going decommissioning projects. The LLW projected in the 2070s assumes that existing ILW stores will be decommissioned and replaced.

Waste	te Reported volume at Reported f		All wastes at 1 April 2022	Ill wastes at 1 April 2022 and future arisings		
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages	
ILW	4,840	2,520	7,370	10,900	14,900	
LLW	20,500	86,500	107,000	174,000	8,110	
VLLW	0	0	0	0	0	
Total	25,300	89,000	114,000	185,000	23,000	

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	240,000		130,000	12,000		
LLW	2.8		16	3.8		
VLLW	0		0	0		
Total	240,000		130,000	12,000		

DONNINGTON (MOD)

Background

MOD Donnington, in Shropshire, acts as a collection centre for redundant equipment containing radioactive material, principally both in-service and redundant equipment containing gaseous tritium light sources, electrodeposited nickel-63 sources and legacy equipment containing radium luminised components. Equipment is disposed of as soon as possible when declared as waste in accordance with current legislation.

Scenario

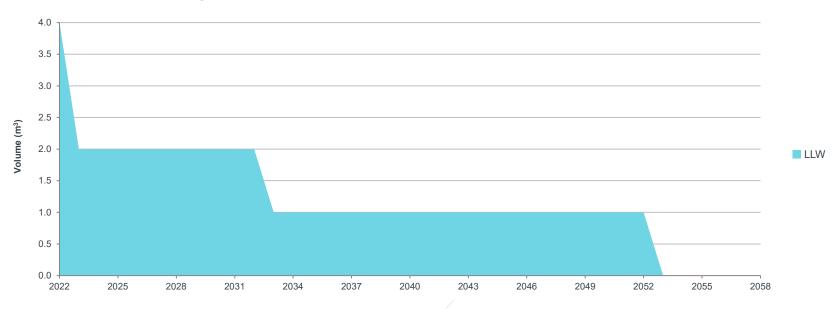
The future needs of MOD will govern waste arisings. It is assumed that waste will continue to arise at current levels and is reported up to 2052.

Waste volume

There are no wastes currently stored at Donnington. Future arisings of LLW are difficult to determine but are assumed to be of low volume.

Waste	Reported volume at	Reported future		All wastes at 1 April 2022 and future arisings			
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages		
ILW	0	0		0	0	0	
LLW	0	44.0		44.0	47.0	3	
VLLW	0	0		0	0	0	
Total	0	44.0		44.0	47.0	3	

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	0		0	0		
LLW	0		NE	NE		
VLLW	0		0	0		
Total	0		NE	NE		

DUNGENESS A (NDA)

Background

Dungeness A is a twin-reactor Magnox nuclear power station on the south coast of England in Kent. Dungeness A operated from 1965 to 2006. The station is now shut down and is being decommissioned.

Scenario

The decommissioning strategy for the Magnox sites is deferred dismantling of the reactors, comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Final Site Clearance.

Dungeness A has been defuelled, and Care and Maintenance Preparations are scheduled to be completed in 2032. The period of Care and Maintenance extends from 2032 to 2092 and Final Site Clearance from 2088 to 2097.

Waste volume

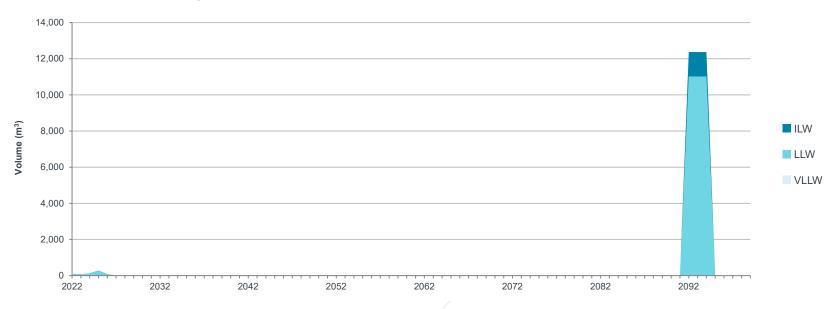
Stocks of ILW and LLW are from legacy operations and on-going care and maintenance preparations. Future arisings are principally from final site clearance.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings			
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages	
ILW (1) (2)	305	4,040	4,350	5,590	452	
LLW	319	33,800	34,200	31,900	75	
VLLW	0.42	0	0.42	0.42	Not quantified	
Total	625	37,900	38,500	37,500	527	

^{(1) 41.8} m³ reported volume (147 m³ packaged volume; 112 packages) are stored at Bradwell.

⁽²⁾ Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	1,800		820	870		
LLW	0.98		0.55	2.2		
VLLW	<0.001		<0.001	<0.001		
Total	1,800		820	870		

DUNGENESS B (EDFE)

Background

Dungeness B is a twin-reactor nuclear power station on the south coast of England in Kent. Dungeness B operated between 1983 and 2021.

Scenario

Dungeness B began defuelling in 2021.

The decommissioning strategy for the Advanced Gas Reactor (AGR) sites is 'Early Safestore', comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Reactor Dismantling and Final Site Clearance. For Dungeness B the period of Defuelling and Care and Maintenance Preparations extends from 2021 to 2036, Care and Maintenance from 2036 to 2106 and Final Site Clearance from 2106 to 2116.

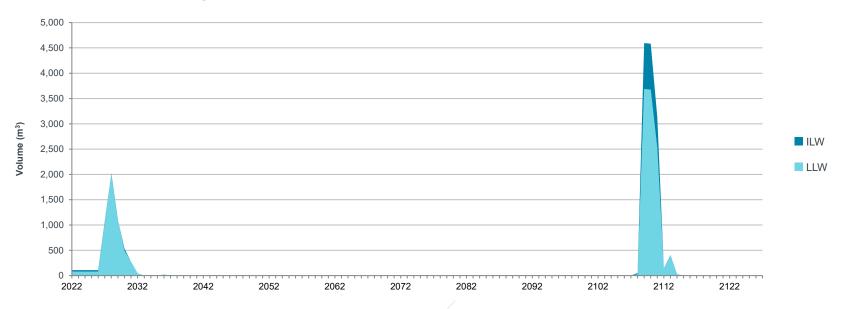
Waste volume

The majority of waste is LLW from future reactor decommissioning.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings			
type 1 April 2022 (m³)	1 April 2022 (m³)	arisings (m³)	Reported volume (m	³) Packaged volume (m ³)	Number of packages	
ILW (1)	581	2,670	3,250	6,060	587	
LLW	79	15,900	16,000	6,690	341	
VLLW	0	0	0	0	0	
Total	660	18,600	19,300	12,700	928	

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	150,000		28,000	8,900		
LLW	0.03		0.63	2.8		
VLLW	0		0	0		
Total	150,000		28,000	8,900		

HARTLEPOOL (EDFE)

Background

Hartlepool is a twin-reactor nuclear power station on the north-east coast of England in Durham. Hartlepool has been operating since 1983.

Scenario

Hartlepool is scheduled to operate until 2024.

The decommissioning strategy for the AGR sites is 'Early Safestore', comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Reactor Dismantling and Final Site Clearance. For Hartlepool the period of Defuelling and Care and Maintenance Preparations extends from 2024 to 2036, Care and Maintenance from 2036 to 2109 and Final Site Clearance from 2109 to 2119.

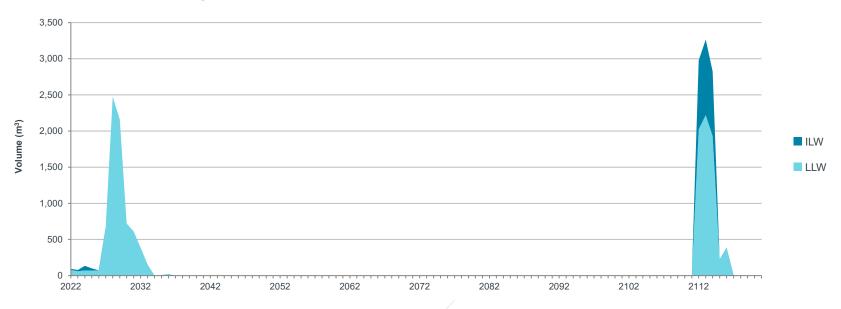
Waste volume

The majority of waste is LLW from future reactor decommissioning.

Waste	Reported volume at	Reported future arisings (m³)	All wastes at 1 April 2022 and future arisings			
type 1 April 2022 (m³)	1 April 2022 (m³)		Reported volume (m ³	Packaged volume (m³)	Number of packages	
ILW (1)	341	3,020	3,370	5,440	395	
LLW	117	14,400	14,500	5,150	264	
VLLW	0	0	0	0	0	
Total	457	17,400	17,900	10,600	659	

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	350,000		92,000	31,000		
LLW	0.06		0.34	1.4		
VLLW	0		0	0		
Total	350,000		92,000	31,000		

HARWELL (NDA)

Background

Harwell in Oxfordshire has been a site for research into a variety of nuclear related topics for over 50 years. A range of reactors and other research facilities (including accelerators, radioactive handling facilities and laboratories) operated until the 1990s. Three redundant reactors remain on the Harwell site: the British Experimental Pile 0 (BEP0) reactor and the materials test reactors DIDO and PLUTO were decommissioned to Stage 2 (i.e. dismantling and removal of most of the remaining fixed radioactive material) several years ago, and all are currently under a minimum Care and Maintenance (C&M) regime.

Scenario

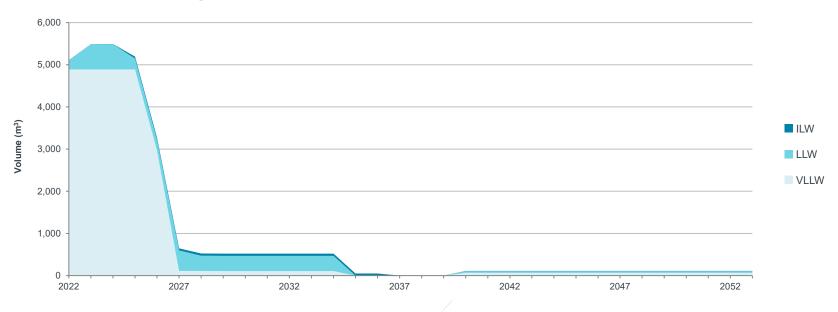
The reference strategy is to decommission and remediate the site so that by 2045 the only licensed facilities remaining would be stores for packaged operational and decommissioning ILW. Final decommissioning of the reactors is scheduled to start in 2023 for BEP0 and 2040 for the MTRs. The radiochemical facility ceased operations in 2004, although parts of the building were used subsequently to process certain historic wastes and are currently being used for the interim storage of contact-handled ILW in drums. Stage 1 decommissioning (i.e. removal of all radioactive sources and readily removable equipment) of certain laboratories was undertaken before full shutdown and under the reference plan the whole of the building should be decommissioned by the end of 2040. The site is in the process of establishing similar waste processing operations as part of the wider scope of waste processing in the Solid Waste Complex.

Waste volume

The majority of ILW in stock is from operational wastes, particularly wastes that were originally packaged in sea dump drums. LLW and VLLW in stock are decommissioning wastes. Future arisings are from decommissioning. VLLW consists of soil and rubble from reactor decommissioning and land remediation.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022	2 and future arisings			
type 1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Reported volume (m³) Packaged volume (m³) Num				
ILW	895	729	1,620	4,570	2,320		
LLW	653	5,450	6,100	6,040	125		
VLLW	1,030	24,300	25,300	20,100	Not quantified		
Total	2,570	30,500	33,100	30,700	2,440		

Profile of waste arisings



Wasta satagony	Total activity (TBq)					
Waste category	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	15,000		6,700	620		
LLW	3.2		13	5.0		
VLLW	0.02		0.14	0.07		
Total	15,000		6,700	630		

HEYSHAM 1 (EDFE)

Background

Heysham 1 is a twin-reactor nuclear power station on the north-west coast of England in Lancashire. Heysham 1 has been operating since 1983.

Scenario

Heysham 1 is scheduled to operate until 2024.

The decommissioning strategy for the AGR sites is 'Early Safestore', comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Reactor Dismantling and Final Site Clearance. For Heysham 1 the period of Defuelling and Care and Maintenance Preparations extends from 2024 to 2035, Care and Maintenance from 2035 to 2109 and Final Site Clearance from 2109 to 2119.

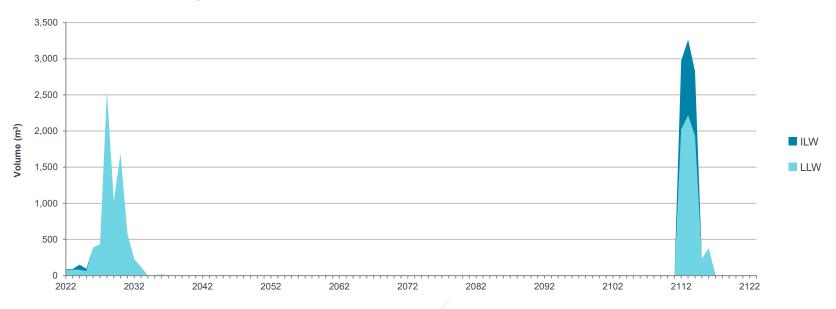
Waste volume

The majority of waste is LLW from future reactor decommissioning.

Waste type	Reported volume at	Reported future	All wastes at 1 April 2	022 and future arisings	
	1 April 2022 (m³)	arisings (m³)	Reported volume (m³) 3,310) Packaged volume (m³)	Number of packages
ILW (1)	296	3,020	3,310	5,310	384
LLW	91.1	14,200	14,300	5,030	258
VLLW	0	0	0	0	0
Total	387	17,200	17,600	10,300	642

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Wasta satagony	Total activity (TBq)					
Waste category	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	200,000		85,000	29,000		
LLW	0.24		3.4	1.9		
VLLW	0		0	0		
Total	200,000		85,000	29,000		

HEYSHAM 2 (EDFE)

Background

Heysham 2 is a twin-reactor nuclear power station on the north-west coast of England in Lancashire. Heysham 2 has been operating since 1988.

Scenario

Heysham 2 is scheduled to operate until 2028.

The decommissioning strategy for the AGR sites is 'Early Safestore', comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Reactor Dismantling and Final Site Clearance. For Heysham 2 the period of Defuelling and Care and Maintenance Preparations extends from 2028 to 2041, Care and Maintenance from 2041 to 2113 and Final Site Clearance from 2113 to 2123.

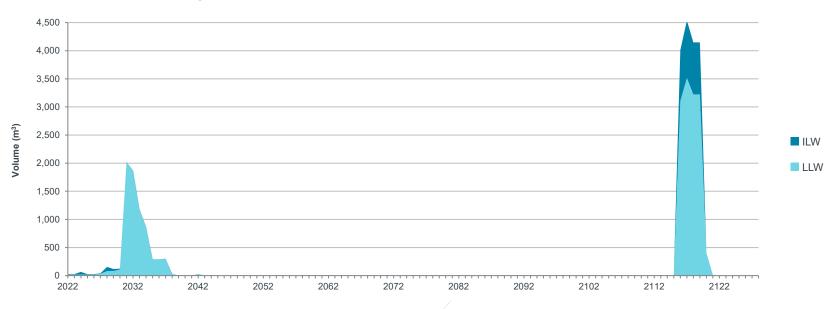
Waste volume

The majority of waste is LLW from future reactor decommissioning.

Waste type	Reported volume at	Reported future	All wastes at 1 April	All wastes at 1 April 2022 and future arisings		
	1 April 2022 (m³)	arisings (m³)	Reported volume (m³) Packaged volume (m³) Number of packaged v	Number of packages		
ILW (1)	227	3,070	3,290	5,340	414	
LLW	37.1	17,700	17,800	8,020	411	
VLLW	0	0	0	0	0	
Total	264	20,800	21,100	13,400	825	

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Wasta satagony	Total activity (TBq)					
Waste category	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	32,000		9,300	3,500		
LLW	0.02		0.41	0.87		
VLLW	0		0	0		
Total	32,000		9,300	3,500		

HINKLEY POINT A (NDA)

Background

Hinkley Point A is a twin-reactor Magnox nuclear power station on the west coast of England in Somerset. Hinkley Point A operated from 1965 to 2000. The station is now shut down and is being decommissioned.

Scenario

The decommissioning strategy for the Magnox sites is deferred dismantling of the reactors, comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Final Site Clearance.

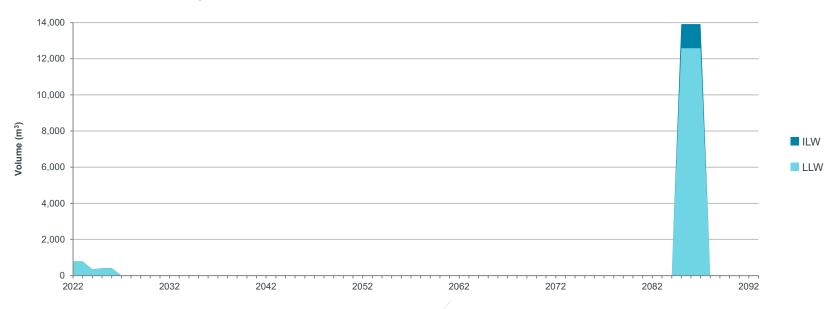
Hinkley Point A has been defuelled, and Care and Maintenance Preparations are scheduled to be completed in 2037. The period of Care and Maintenance extends from 2037 to 2085 and Final Site Clearance from 2081 to 2090.

Waste volume

Stocks of ILW and LLW are from legacy operations and on-going decommissioning. Future arisings are principally from final site clearance.

Waste	Reported volume at	Reported future	All wastes at 1 April 202	2 and future arisings	
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages
ILW	1,060	4,040	5,100	7,810	675
LLW	46.8	40,600	40,600	38,000	132
VLLW	261	0	261	261	Not quantified
Total	1,370	44,600	46,000	46,100	807

Profile of waste arisings



Wasta satamani	Total activity (TBq)						
Waste category	At 1.4.2022		At 1.4.2050	At 1.4.2200			
ILW	4,900		3,100	2,000			
LLW	0.15		0.79	5.8			
VLLW	0.002		<0.001	<0.001			
Total	4,900		3,100	2,000			

HINKLEY POINT B (EDFE)

Background

Hinkley Point B is a twin-reactor nuclear power station on the south-west coast of England in Somerset. Hinkley Point B has been operating since 1976.

Scenario

Hinkley Point B is scheduled to operate until 2022.

The decommissioning strategy for the AGR sites is 'Early Safestore', comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Reactor Dismantling and Final Site Clearance. For Hinkley Point B the period of Defuelling and Care and Maintenance Preparations extends from 2022 to 2034, Care and Maintenance from 2034 to 2107 and Final Site Clearance from 2107 to 2117.

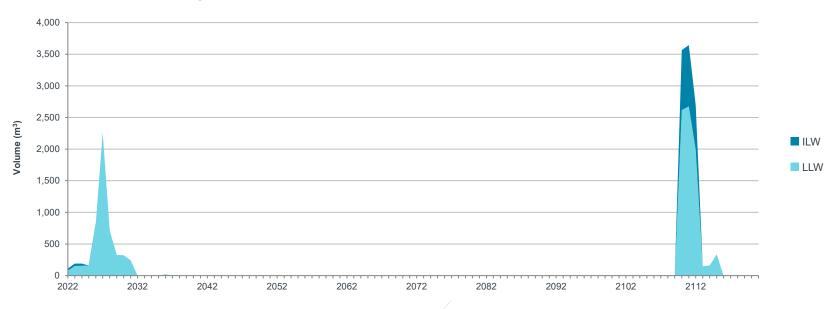
Waste volume

The majority of waste is LLW from future reactor decommissioning.

Waste type	Reported volume at	Reported future	All wastes at 1 April 2	2022 and future arisings	
	1 April 2022 (m³)	arisings (m³)		Number of packages	
ILW (1)	884	2,720	3,610	6,530	468
LLW	106	13,300	13,400	6,220	319
VLLW	0	0	0	0	0
Total	990	16,000	17,000	12,800	787

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Wasta satagawy	Total activity (TBq)					
Waste category	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	240,000		76,000	27,000		
LLW	0.02		0.18	1.8		
VLLW	0		0	0		
Total	240,000		76,000	27,000		

HINKLEY POINT C (NNB GenCo (HPC))

Background

NNB GenCo (HPC) Ltd is constructing two UK EPRs at the Hinkley Point C site near Bridgwater in Somerset. Once operational, the station will operate for 60 years.

Scenario

Wastes anticipated to be generated over the 60 year operating life have been reported. Details of decommissioning waste and spent fuel can be found in the HPC Decommissioning Waste Management Plan⁶ and the Inventory for Geological Disposal⁷ but were not reported in the current inventory.

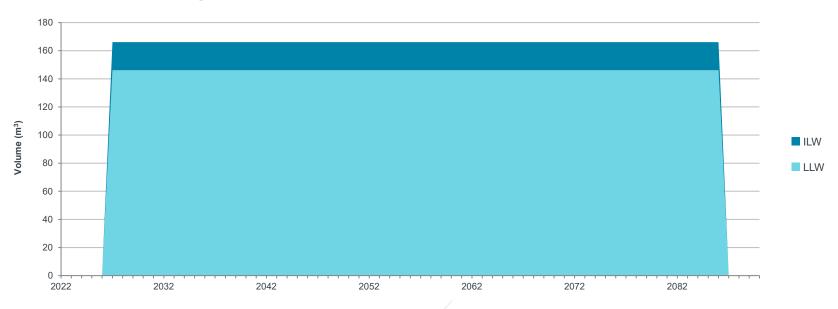
Waste volume

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings				
type 1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Reported volume (m³) Packaged volume (m³)				
ILW	0	1,200	1,200	4,160	5,030		
LLW	0	8,770	8,770	8,240	371		
VLLW	0	0	0	0	0		
Total	0	9,970	9,970	12,400	5,400		

⁶ NNB GenCo, "Hinkley Point C Power Station Decommissioning and Waste Management Plan, Revision 4". May 2014

⁷ RWM, "Inventory for Geological Disposal: Main Report", DSSC/403/03, May 2021

Profile of waste arisings



Waste category	Total activity (TBq)						
	At 1.4.2022		At 1.4.2050	At 1.4.2200			
ILW	0		97	35			
LLW	0		0.20	0.010			
VLLW	0		0	0			
Total	0		97	35			

HUNTERSTON A (NDA)

Background

Hunterston A is a twin-reactor Magnox nuclear power station on the west coast of Scotland in Ayrshire. Hunterston A operated from 1964 to 1990. The station is now shut down and is being decommissioned.

Scenario

The decommissioning strategy for the Magnox sites is deferred dismantling of the reactors, comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Final Site Clearance.

Hunterston A has been defuelled, and Care and Maintenance Preparations are scheduled to be completed in 2030. The period of Care and Maintenance extends from 2030 to 2075 and Final Site Clearance from 2071 to 2080.

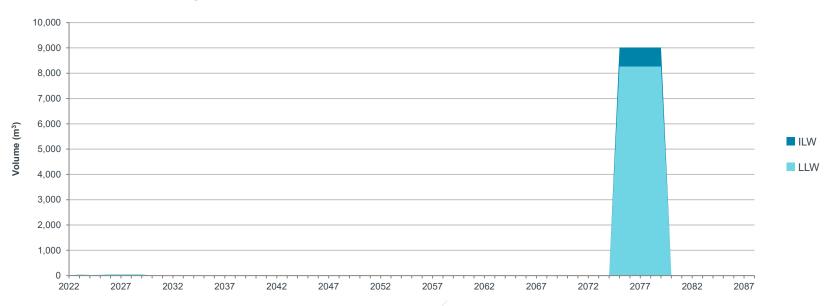
Waste volume

Stocks of ILW and LLW are from legacy operations and on-going decommissioning. Future arisings are principally from final site clearance.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings			
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages	
ILW (1)	2,850	3,750	6,610	9,290	1,710	
LLW	68.2	41,700	41,800	39,500	124	
VLLW	0	0	0	0	0	
Total	2,920	45,500	48,400	48,800	1,830	

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Waste category	Total activity (T	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200			
ILW	800		220	420			
LLW	0.02		0.04	2.8			
VLLW	0		0	0			
Total	800		220	420			

HUNTERSTON B (EDFE)

Background

Hunterston B is a twin-reactor nuclear power station on the west coast of Scotland in Ayrshire. Hunterston B operated between 1976 and 2022.

Scenario

Hunterston B produced electricity until January 2022.

The decommissioning strategy for the AGR sites is 'Early Safestore', comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Reactor Dismantling and Final Site Clearance. For Hunterston B the period of Defuelling and Care and Maintenance Preparations extends from 2022 to 2034, Care and Maintenance from 2034 to 2107 and Final Site Clearance from 2107 to 2117.

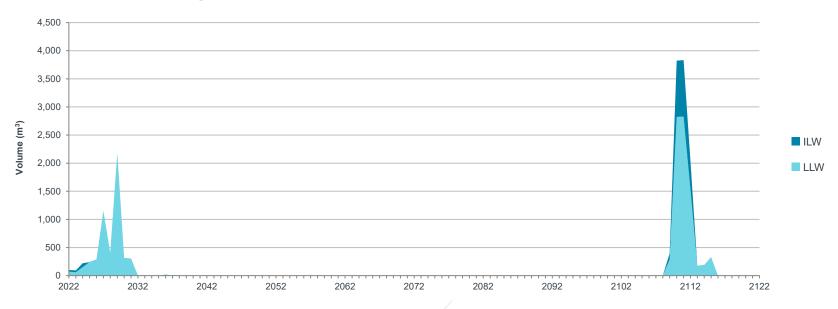
Waste volume

The majority of waste is LLW from future reactor decommissioning.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings			
type 1 April 2022 (1 April 2022 (m³)	arisings (m³)	Reported volume (m	³) Packaged volume (m ³)	Number of packages	
ILW (1)	1,010	2,750	3,760	6,930	706	
LLW	67.4	13,400	13,500	6,180	316	
VLLW	0	0	0	0	0	
Total	1,080	16,200	17,300	13,100	1,020	

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Waste category	Total activity (TB	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200			
ILW	100,000		29,000	10,000			
LLW	0.02		0.35	2.2			
VLLW	0		0	0			
Total	100,000		29,000	10,000			

LLWR (NDA)

Background

The Low Level Waste Repository (LLWR) south of Sellafield in West Cumbria is the UK's national disposal site for low level wastes. It has operated since 1959 and accepts LLW from a wide variety of sources throughout the UK. This includes nuclear licensed sites, hospitals, research establishments and industrial concerns.

The site has also been used for storing plutonium contaminated materials (PCM), initially in former munitions storage magazines, subsequently in a custom-built drum store.

Scenario

Operations at the site, which cover receipt, storage and disposal of LLW, are forecast to continue until 2135 and will generate small quantities of LLW.

The decommissioning of the magazines is complete. Final decontamination activities are scheduled to be completed in 2022 dependent on the availability of Type B containers. All PCM maintenance and operations are due to be completed by 2023.8

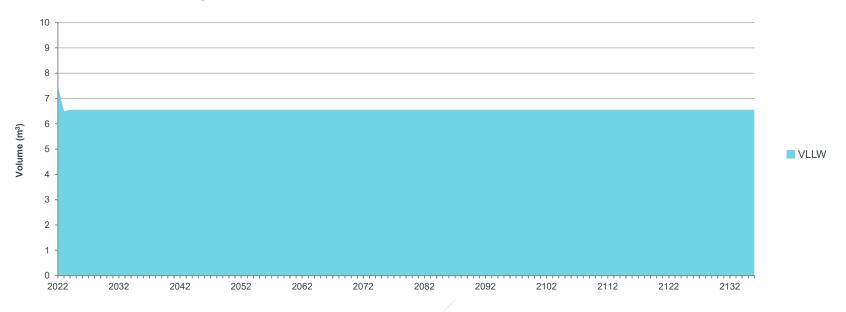
Waste volume

ILW consists of PCM and LLW is from PCM decommissioning wastes and site maintenance.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings			
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages	
ILW	395	0	395	214	375	
LLW	246	0	246	139	7	
VLLW	58	755	813	736	Not quantified	
Total	699	755	1,450	1,090	382	

⁸ Recharacterisation of PCM was completed in August 2022 with initial data sets showing reclassification rates of >99% from PCM to LLW.

Profile of waste arisings



Waste category	Total activity (T	Total activity (TBq)						
	At 1.4.2022		At 1.4.2050	At 1.4.2200				
ILW	400		130	31				
LLW	0.03		0.03	0.03				
VLLW	<0.001		0.006	0.01				
Total	400		130	31				

NRTE VULCAN (MOD)

Background

The Naval Reactor Test Establishment (NRTE) Vulcan at Dounreay has carried out development work, acting as the test bed for prototype submarine nuclear reactors. Operations at Vulcan ceased in July 2015.

Scenario

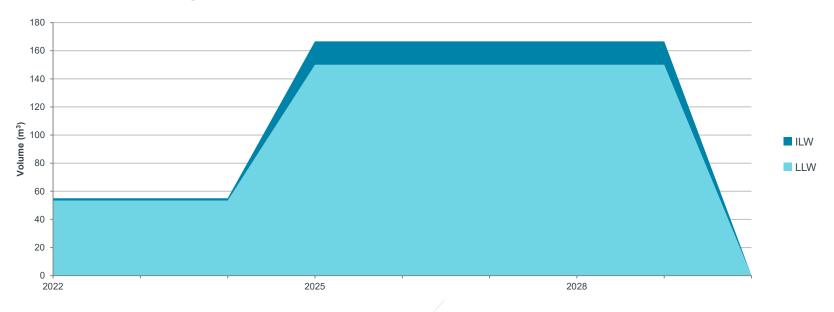
A post-operational phase is estimated to continue until about 2025. Post operational activities include defuelling of the reactor, clearance of fuel from the site, and preparations for decommissioning and disposal of the reactors and their component parts. Decommissioning is assumed to take place from around 2026.

Waste volume

In addition to arisings from post-operations, the majority of waste in volume terms will be from steel reactor components from reactor decommissioning.

Waste	Reported volume at	Reported future	All wastes at 1 April 202	All wastes at 1 April 2022 and future arisings			
type	type 1 April 2022 (m³) ai	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages		
ILW	6.5	88.2	94.7	116	204		
LLW	42.5	910	953	1,050	55		
VLLW	0	0	0	0	0		
Total	49.0	998	1,050	1,170	259		

Profile of waste arising



Waste category	Total activity (T	Total activity (TBq)						
	At 1.4.2022		At 1.4.2050	At 1.4.2200				
ILW	12		6.8	3.4				
LLW	0.22		0.14	0.05				
VLLW	0		0	0				
Total	12		7.0	3.4				

OLDBURY (NDA)

Background

Oldbury is a twin-reactor Magnox nuclear power station on the west coast of England in South Gloucestershire. Oldbury operated from 1967 to 2012. The station is now shut down and is being decommissioned.

Scenario

The decommissioning strategy for the Magnox sites is deferred dismantling of the reactors, comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Final Site Clearance.

Oldbury has been defuelled, and Care and Maintenance Preparations are scheduled to be completed in 2033. The period of Care and Maintenance extends from 2033 to 2093 and Final Site Clearance from 2091 to 2103.

Waste volume

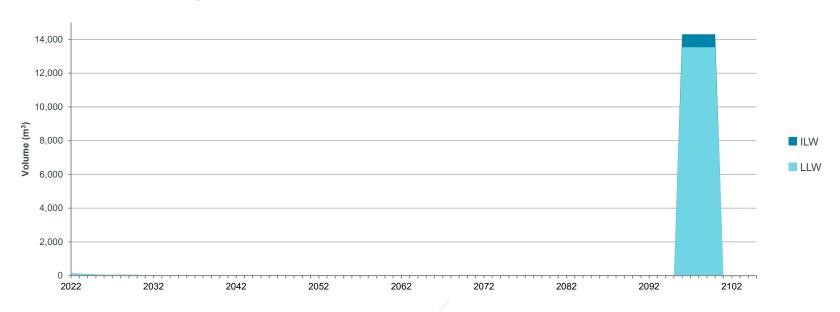
Stocks of ILW and LLW are from legacy operations and on-going care and maintenance preparations. Future arisings are principally from final site clearance.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings			
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages	
ILW (1, 2)	709	3,890	4,600	5,830	334	
LLW	227	68,400	68,700	65,700	177	
VLLW	0	0	0	0	0	
Total	936	72,300	73,300	71,500	511	

^{(1) 0.85} m³ reported volume (5.28 m³ packaged volume; 4 packages) are stored at Berkeley.

(2) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	2,400		800	1,000		
LLW	0.79		0.95	2.6		
VLLW	0		0	0		
Total	2,400		800	1,000		

HMNB PORTSMOUTH (MOD)

Background

HMNB Portsmouth in Hampshire is involved in managing naval stores and de-equipping redundant naval surface vessels that can contain equipment and instrumentation incorporating radioactive materials. The base produces small quantities of radioactive waste from these activities.

Scenario

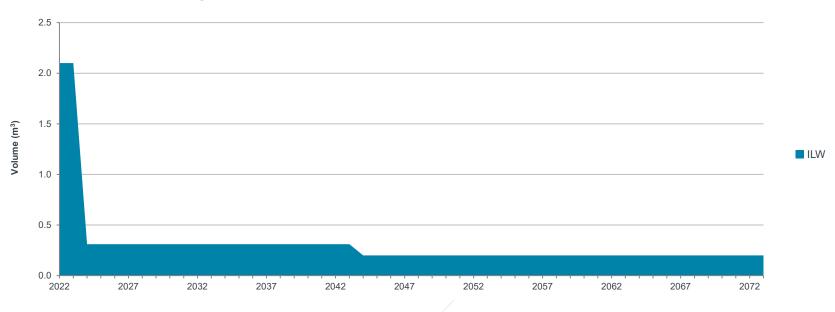
Waste arisings do not occur at a constant rate and are difficult to determine as they are dependent on a number of factors such as equipment being declared as obsolete and legacy items being returned following site closures. The site is forecast to produce only small quantities of ILW, and volumes are estimated to 2063.

Waste volume

Waste	Reported volume at	Reported future		All wastes at 1 April 2022 and future arisings			
type	type 1 April 2022 (m³)	arisings (m³)		Reported volume (m³)	Packaged volume (m³)	Number of packages	
ILW ⁽¹⁾	7.5	16.4		23.9	27.8	32	
LLW	0	0		0	0	0	
VLLW	0	0		0	0	0	
Total	7.5	16.4		23.9	27.8	32	

⁽¹⁾ Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	120		36	2.3		
LLW	0		0	0		
VLLW	0		0	0		
Total	120		36	2.3		

ROSYTH AND DEVONPORT – DECOMMISSIONED SUBMARINES (MOD)

Background

When nuclear powered submarines leave naval service the nuclear fuel is removed, equipment taken off and the vessel prepared for storage afloat. This process is called decommissioning, but in the naval sense, and is distinct from the decommissioning of nuclear power stations. After naval decommissioning, radioactivity remains contained within the reactor compartment structures. To date 22 nuclear-powered submarines have left naval service and 11 have been defuelled. They are being stored afloat at Rosyth and Devonport dockyards.

Scenario

Future arisings of submarine decommissioning wastes assume a continuing naval nuclear propulsion programme with a fleet of up to 7 SSNs (nuclear powered, conventionally armed submarines) and 4 SSBNs (nuclear powered submarines with ballistic nuclear weapons). Submarines are assumed to have a hull life of between 25 and 30 years and to be stored afloat for 30 years before being dismantled and the waste processed. Future arisings of submarine decommissioning wastes are forecast up to 2110.

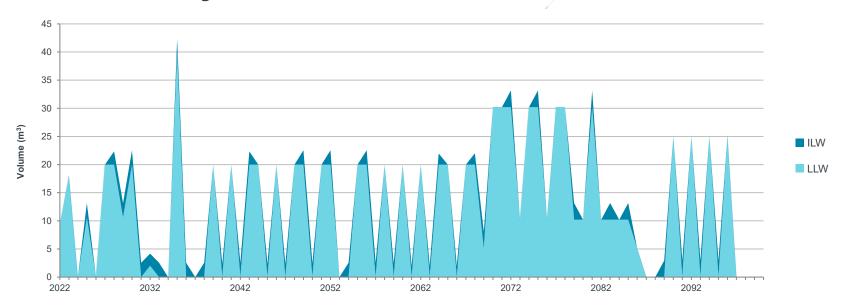
MOD's Submarine Dismantling Project (SDP) aims to deliver a safe and secure solution for dismantling 27 of the UK's defuelled nuclear-powered submarines, comprising all 22 currently stored afloat and a further five yet to leave service (up to and including the Vanguard class). The process for selecting an interim ILW storage site, pending disposal in the planned Geological Disposal Facility (GDF), may affect the current 30-year, afloat storage policy, which in turn may affect the rate at which the waste is processed.

The 2022 UK Inventory includes wastes for 27 submarines currently in scope of the SDP programme and seven existing / planned Astute boats and four future Dreadnought class boats.

Waste volume

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings			
type 1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages		
ILW	0	96.6	96.6	1,240	345	
LLW	29.6	944	974	3,130	137	
VLLW	0	0	0	0	0	
Total	29.6	1,040	1,070	4,370	482	

Profile of waste arisings



Wasta satagony	Total activity (TBq)					
Waste category	At 1.4.2022	At 1.4.2050	At 1.4.2200			
ILW	0	900	930			
LLW	0.14	1.00	1.3			
VLLW	0	0	0			
Total	0.14	910	930			

ROSYTH ROYAL DOCKYARD (MOD)

Background

The Rosyth Royal Dockyard near Dunfermline in Fife used to carry out refitting and refuelling of the nuclear submarine fleet. These activities at Rosyth ceased in 2003. The site is undergoing progressive decommissioning.

Scenario

The first stage of Rosyth site decommissioning was completed in 2010, dealing with nuclear facilities associated with the previous submarine refitting activities.

There are seven laid up submarines at Rosyth, the dismantling of which is the subject of the Rosyth Submarine Dismantling Project. Three boats (SWIFTSURE, RESOLUTION and REVENGE) have now had the first stage of initial submarine dismantling completed (small item LLW removal) with increasing scope for each one. Several large LLW items have also been removed from REVENGE. A fourth boat (REPULSE) has now been brought into dock for the first stage of initial submarine dismantling (small item LLW removal only). A schedule is being put together to integrate all enabling projects and operations, including stage two, for removal of all radioactive materials from SWIFTSURE and readiness for conventional recycling.

Submarine dismantling activities at Rosyth are forecast to continue until the 2030s, after which the nuclear facilities used to support submarine dismantling will be decommissioned.

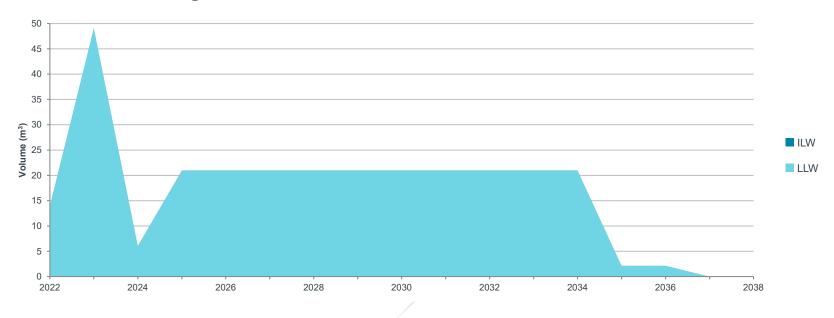
Waste volume

Small volumes of ILW and LLW are produced at Rosyth.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022	All wastes at 1 April 2022 and future arisings			
type 1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages			
ILW ⁽¹⁾	22.4	0.75	23.2	24.7	2		
LLW	3	282	285	238	11		
VLLW	0	0	0	0	0		
Total	25.4	283	308	263	13		

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Waste category	Total activity (TBq)				
	At 1.4.2022	At 1.4.2050	At 1.4.2200		
ILW	0.28	0.13	0.08		
LLW	<0.001	0.003	0.002		
VLLW	0	0	0		
Total	0.28	0.14	0.08		

SELLAFIELD (NDA)

Background

Sellafield in West Cumbria was the birthplace of the UK nuclear industry. Since the 1940s the site has been at the forefront of nuclear developments. Initially it was in support of the UK nuclear weapons programme. It was then followed by advances in the early generations of nuclear reactors and the development of spent fuel reprocessing technology. As a result of these activities and subsequent investment in waste treatment plants and stores, there are now about 300 buildings on the site with nuclear inventories.

The Sellafield site incorporates the historically separate licensed sites of Windscale and Calder Hall. The Windscale site includes the Windscale Piles, the early spent fuel reprocessing facilities, the Windscale Advanced Gas-cooled Reactor (WAGR) and extensive PIE facilities. The Calder Hall site is the location of the first Magnox nuclear power station, which ceased power generation in 2003.

Scenario

In November 2018, the Thermal Oxide Reprocessing Plant (Thorp) completed its final shear of spent fuel. Part of the plant will continue to receive spent AGR fuel from EDF Energy and this will be held in long-term storage in underwater ponds within the existing plant. It is expected that the fuel will eventually be conditioned and consigned to the planned GDF from around 2075. The rest of the plant is now commencing Post Operational Clean Out (POCO). The Magnox Reprocessing plant concluded operations in July 2022 and is now undertaking POCO.

Vitrified HLW from reprocessing overseas spent fuel will continue to be repatriated to the country of origin; the bulk of the programme is expected to be completed by around 2025.

The site will continue to focus on high hazard reduction and environmental remediation, including waste retrieval and treatment, POCO and the decommissioning of redundant facilities. Sellafield is exploring options for optimising these processes; therefore the current waste volume estimates will be subject to future revision as plans are developed.

The main group of legacy plants at Sellafield, known as Legacy Ponds & Silos (LP&S), represent the highest hazard and the highest decommissioning priority across the NDA estate. They comprise:

- Pile Fuel Storage Pond an open-air pond used for underwater storage of a range of early reactor development fuels
- First Generation Magnox Storage Pond an open-air pond used to store Magnox fuel before reprocessing.

- Magnox Swarf Storage Silo a series of covered compartments used mainly to store Magnox fuel cladding removed from the spent fuel rods before
 reprocessing.
- Pile Fuel Cladding Silo covered compartments used to store Pile reactor fuel cladding removed from the spent fuel before reprocessing.

Good progress is now being made in the retrieval of fuel, sludge and solid waste from the legacy ponds, and retrievals of waste from the silo facilities are expected to begin shortly. ILW will continue to be conditioned and safely stored on the site and exported to the GDF when it is available.

The other nuclear facilities at Sellafield will be progressively decommissioned as they reach the end of their operating lives. Depending on the role of the plant there are a number of decommissioning stages to go through. All site decommissioning activities will be largely completed by 2090 with all buildings/waste stores (except product stores and supporting ancillary buildings) assumed to be demolished by 2120.

Waste volume

Most waste is LLW and VLLW from decommissioning the site's many nuclear facilities.

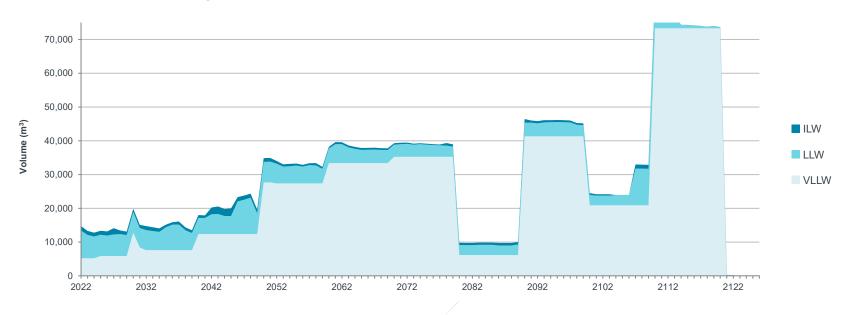
Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings				
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages		
HLW	1,990	See note 1	1,670	1,470	7,520		
ILW ⁽²⁾	76,300	71,600	148,000	347,000	240,000		
LLW ⁽³⁾	3,350	464,000	468,000	265,000	3,240		
VLLW	0	2,700,000	2,700,000	2,570,000	Not quantified		
Total	81,600	3,240,000	3,320,000	3,180,000	250,000		

⁽¹⁾ From 1.4.2022 there is a net decrease in the reported volume of HLW. This is because accumulated HAL is being conditioned, which reduces its volume by about two-thirds. It is also because vitrified HLW is being exported to overseas customers. Thus, the volume of 1,990 m³ at 1.4.2022 is expected to fall by 315 m³, to 1,670 m³, by 2031. This is when all HAL (plus IFP residues and contaminated plant items) is expected to be conditioned.

⁽²⁾ Some packaged ILW will be disposed of as LLW.

⁽³⁾ In addition there is 388 m³ reported volume (37.8 m³ packaged volume) from AGR fuel flasks stored at Sellafield.

Profile of waste arisings



Waste Category	Total activity (TBq)					
	At 1.4.2022	At 1.4.2050	At 1.4.2200			
HLW	82,000,000	45,000,000	1,900,000			
ILW	2,200,000	1,300,000	280,000			
LLW	0.84	17	9.0			
VLLW	0	4.3	13			
Total	84,000,000	46,000,000	2,200,000			

SIZEWELL A (NDA)

Background

Sizewell A is a twin-reactor Magnox nuclear power station in Suffolk on the east coast of England. Sizewell A operated from 1966 to 2006. The station is now shut down and is being decommissioned.

Scenario

The decommissioning strategy for the Magnox sites is deferred dismantling of the reactors, comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Final Site Clearance.

Sizewell A has been defuelled, and Care and Maintenance Preparations are scheduled to be completed in 2037. The period of Care and Maintenance extends from 2037 to 2092 and Final Site Clearance from 2088 to 2100.

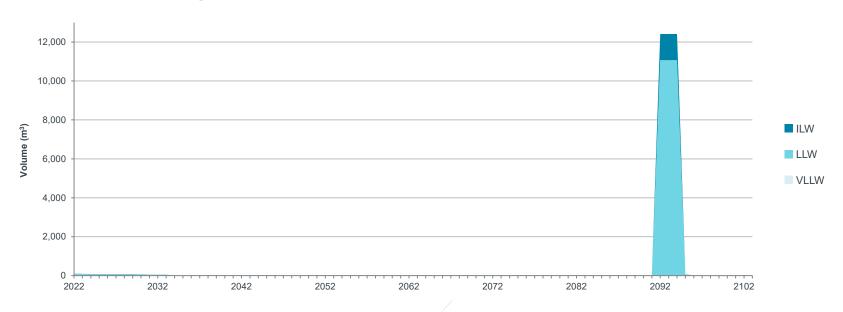
Waste volume

Stocks of ILW and LLW are from legacy operations and on-going decommissioning. Future arisings are principally from final site clearance.

Waste	Waste Reported volume at Reported future		All wastes at 1 April 2022 and future arisings			
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages	
ILW ⁽¹⁾	544	4,050	4,600	5,800	302	
LLW	446	34,100	34,600	32,000	117	
VLLW	0	56	56	56	Not quantified	
Total	990	38,200	39,200	37,900	419	

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	40		30	550		
LLW	2.3		1.3	3.2		
VLLW	0		<0.001	<0.001		
Total	43		31	550		

SIZEWELL B (EDFE)

Background

Sizewell B is a Pressurised Water Reactor (PWR) nuclear power station on the east coast of England in Suffolk. The Sizewell B reactor has been operating since 1995.

Scenario

Sizewell B is scheduled to operate until 2035.

The decommissioning strategy for Sizewell B is 'Early Site Clearance', with reactor dismantling deferred for a period of 10 years after station shutdown. All decommissioning work on the site is planned to be completed 20 years after station shutdown. This strategy has been adopted following a review of international best practice for PWR decommissioning.

The spent fuel from the reactor will be stored at the site until a disposal route is available, although this does not foreclose potential alternative options.

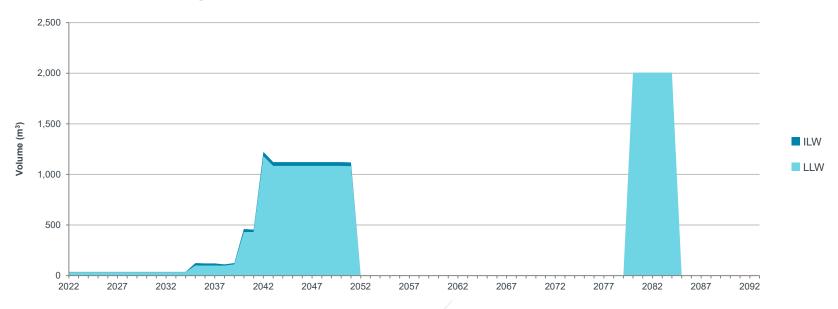
Waste volume

The majority of waste is LLW from future reactor decommissioning. This includes redundant shield and transfer casks that arise after the closure of the spent fuel dry store.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings			
type 1 April 2022 (m³) arisings (m²	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages		
ILW ⁽¹⁾	75	578	653	1,550	884	
LLW	149	22,800	22,900	12,500	640	
VLLW	0	0	0	0	0	
Total	224	23,300	23,600	14,000	1,520	

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Waste category	Total activity (TBq)					
	At 1.4.2022			At 1.4.2050	At 1.4.2200	
ILW	7,400			58,000	7,200	
LLW	0.26			89	15	
VLLW	0			0	0	
Total	7,400			58,000	7,200	

SPRINGFIELDS (NDA)

Background

The Springfields site, near Preston in Lancashire, manufactures nuclear fuel products for the UK's nuclear power stations and for international customers. Operations include the fabrication of oxide fuels for AGRs and intermediate fuel products such as powders, granules and pellets.

Scenario

Future operations at Springfields will depend on commercial strategies and the outlook for the worldwide nuclear power industry. Redundant plants and buildings are being demolished, and there is an ongoing programme to recover the site's historic legacy of natural and enriched uranic residues. Fuel fabrication and uranic residues recovery operations involve bulk chemical and metallurgical processing that produce low activity radioactive waste.

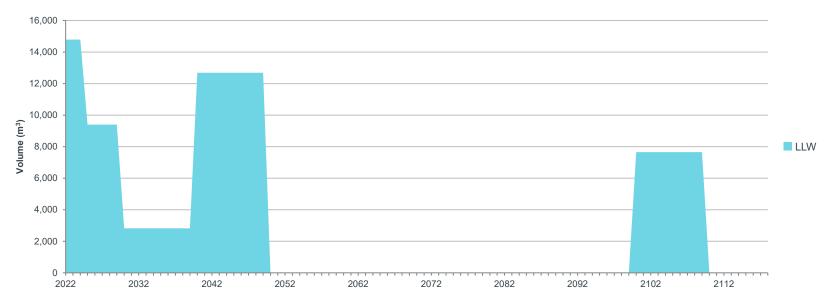
The production and delivery of natural uranium hexafluoride (UF₆ / hex) stopped in 2014. While the Hex Plant is not currently in use, Westinghouse is pursuing future UF₆ conversion contracts. Oxide manufacturing is forecast to continue until 2028, supplying AGR fuel in line with the current planned closure dates of the AGR power stations and uranium dioxide products for UK and overseas customers. Current annual demand capacity for AGR fuel is 215 tU and for intermediate oxide product is between 200 and 400 tU. The Magnox and Residue Recovery plant have moved into the POCO phase of their life with the Decommissioning of residues facilities expected to start in 2022 / 2023 financial year. Decommissioning of the Hex Plant and Oxide Fuels Complex has a provisional date of 2045. Final site clean-up and remediation has a provisional date of ~2100.

Waste volume

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings			
type 1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages		
ILW	0	0	0	0	0	
LLW (1)	1,230	323,000	324,000	313,000	55	
VLLW	0	0	0	0	0	
Total	1,230	323,000	324,000	313,000	55	

⁽¹⁾ The site generates low activity wastes that have a range of activity concentrations spanning the VLLW/LLW boundary. The wastes are not separated into the two types as they can be routinely disposed of to landfill.

Profile of waste arisings



Wasta satanani	Total activity (TBq)					
Waste category	At 1.4.2022	At 1.4.2050	At 1.4.2200			
ILW	0	0	0			
LLW	NE	NE	NE			
VLLW	0	0	0			
Total	NE	NE	NE			

TORNESS (EDFE)

Background

Torness is a twin-reactor AGR nuclear power station on the east coast of Scotland in East Lothian. Torness has been operating since 1988.

Scenario

Torness is scheduled to operate until 2028.

The decommissioning strategy for the AGR sites is Early Safestore, comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Reactor Dismantling and Final Site Clearance. For Torness the period of Defuelling and Care and Maintenance Preparations extends from 2028 to 2042, Care and Maintenance from 2042 to 2113 and Final Site Clearance from 2113 to 2123.

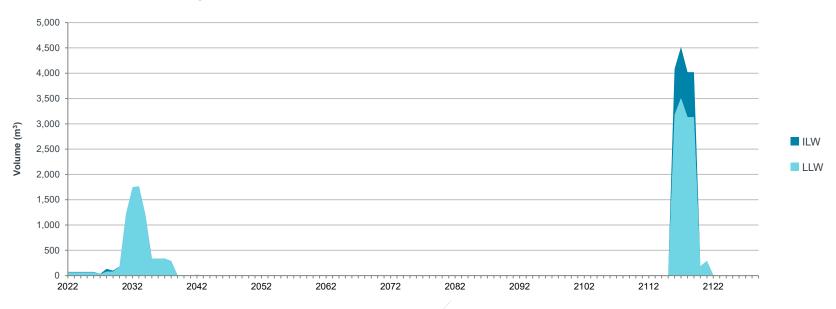
Waste volume

The majority of waste is LLW from future reactor decommissioning.

Waste		Reported future	All wastes at 1 April 2022 and future arisings				
type		arisings (m³)	Reported volume (m	³) Packaged volume (m ³)	Number of packages		
ILW ⁽¹⁾	227	2,950	3,170	5,170	452		
LLW	34.6	18,400	18,500	8,130	416		
VLLW	0	0	0	0	0		
Total	261	21,400	21,700	13,300	868		

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Wasta satagony	Total activity (TBq)					
Waste category	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	150,000		29,000	10,000		
LLW	0.02		1.4	0.95		
VLLW	0		0	0		
Total	150,000		29,000	10,000		

TRAWSFYNYDD (NDA)

Background

Trawsfynydd is a twin-reactor Magnox nuclear power station in Gwynedd, Wales. Trawsfynydd operated from 1965 to 1991. The station is now shut down and is being decommissioned.

Scenario

The decommissioning strategy for the Magnox sites is deferred dismantling of the reactors, comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Final Site Clearance.

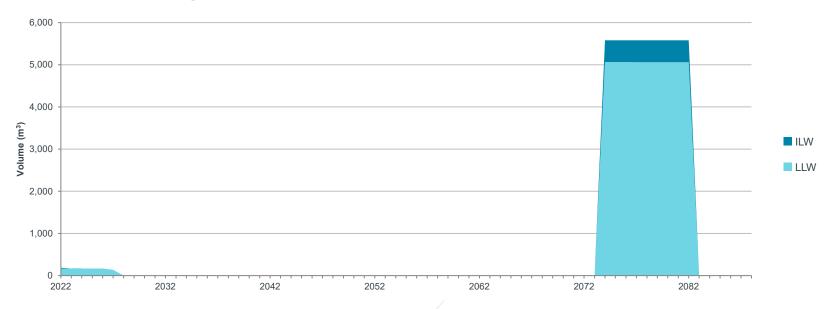
Trawsfynydd has been defuelled, and Care & Maintenance Preparations are scheduled to be completed in 2031. The period of Care and Maintenance extends from 2031 to 2077 and Final Site Clearance from 2074 to 2083.

Waste volume

Stocks of ILW and LLW are from legacy operations and on-going care and maintenance preparations. Future arisings are principally from final site clearance.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings			
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages	
ILW	2,240	4,670	6,910	13,300	934	
LLW	170	46,600	46,800	77,500	3,520	
VLLW	0	0	0	0	0	
Total	2,410	51,300	53,700	90,800	4,450	

Profile of waste arisings



Worte setemany	Total activity (TBq)					
Waste category	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	1,000		560	890		
LLW	0.88		0.90	2.5		
VLLW	0		0	0		
Total	1,000		560	890		

WINFRITH (NDA)

Background

Research and development work into different reactor types was carried out at Winfrith in Dorset. All facilities, including a number of research, experimental and prototype reactors, have closed down and have either already been decommissioned or are currently being decommissioned.

Scenario

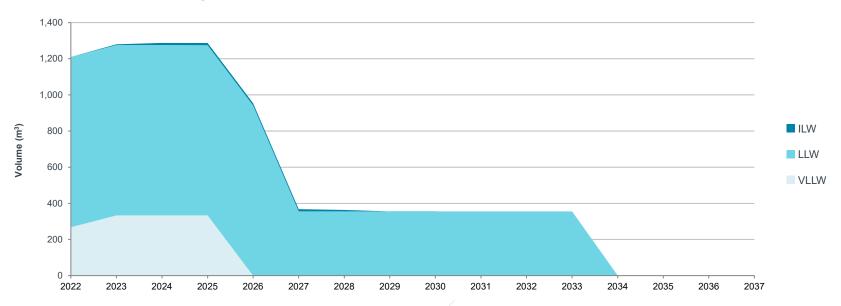
There are two remaining shutdown reactors on the site: the Steam Generating Heavy Water Reactor (SGHWR) and the Dragon high temperature gas-cooled reactor. Most of the secondary facilities associated with these buildings have been decommissioned, and the reactors have been in a Care and Maintenance regime for a number of years. In 2011 limited decommissioning activities recommenced on Dragon, and final decommissioning of both reactors commenced in 2014 and is scheduled to be complete by 2034.

Waste volume

Waste stocks are from legacy operations and decommissioning. Future arisings are from decommissioning. VLLW consists of soil and rubble from reactor decommissioning and land remediation.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings			
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages	
ILW	4.01	62.0	66.0	1,400	220	
LLW	764	7,190	7,960	9,520	235	
VLLW	0	1,270	1,270	1,270	Not quantified	
Total	768	8,520	9,290	12,200	455	

Profile of waste arisings



Worte setemany	Total activity (TBq)					
Waste category	At 1.4.2022		At 1.4.2050	At 1.4.2200		
ILW	67		860	270		
LLW	11		7.3	1.2		
VLLW	0		0.002	<0.001		
Total	78		870	270		

WYLFA (NDA)

Background

Wylfa is a twin-reactor Magnox nuclear power station on the coast of Wales in Anglesey. Wylfa operated from 1971 to 2015. The station is now shut down and is being decommissioned.

Scenario

The decommissioning strategy for the Magnox sites is deferred dismantling of the reactors, comprising three phases – Defuelling and Care and Maintenance Preparations; Care and Maintenance; Final Site Clearance.

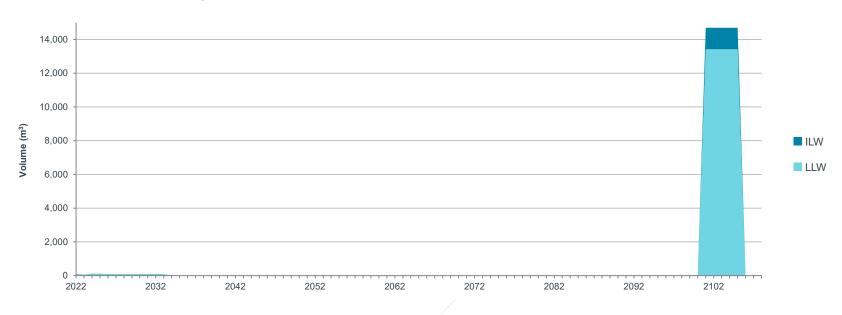
Wylfa has been defuelled, and Care and Maintenance Preparations are scheduled to be completed in 2037. The period of Care and Maintenance extends from 2037 to 2101 and Final Site Clearance from 2097 to 2106.

Waste volume

Stocks of ILW and LLW are from legacy operations and on-going care and maintenance preparations. Future arisings are principally from final site clearance.

Waste	Reported volume at	Reported future	All wastes at 1 April 2022 and future arisings			
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages	
ILW	845	6,390	7,230	9,020	460	
LLW	98.4	68,300	68,400	62,900	65	
VLLW	0	0	0	0	0	
Total	943	74,700	75,700	71,900	525	

Profile of waste arisings



Mosto satomony	Total activity (TB	Total activity (TBq)				
Waste category	At 1.4.2022			At 1.4.2050	At 1.4.2200	
ILW	23,000			6,500	3,400	
LLW	0.16			0.97	2.8	
VLLW	0			0	0	
Total	23,000			6,500	3,400	

MINOR WASTE PRODUCERS (various sites)

Background

Many so-called 'small users' of radioactive substances (such as hospitals, industrial, educational and research establishments) produce small quantities of radioactive waste. In the Inventory these establishments are collectively referred to as 'Minor waste producers'.

Scenario

Rates of waste arising are difficult to predict. In recent years annual arisings of ILW have fallen and are now at very low levels. Future arisings are expected to be minimal. No estimate has been made of future LLW consignments to the LLWR; there have been no recent direct consignments from minor producers and no estimate is available of indirect consignments via the waste service supply chain.

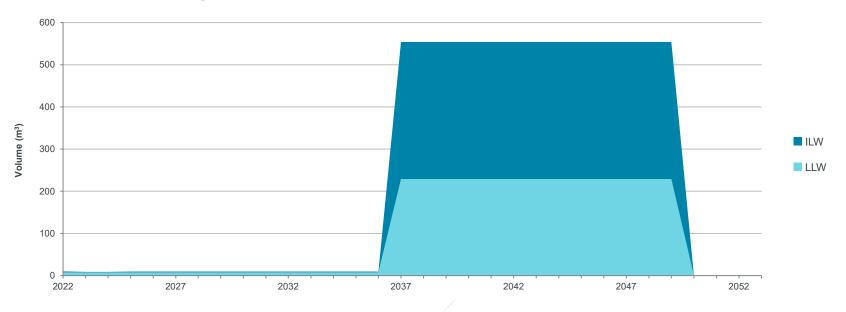
The Science and Technology Facilities Council (under UK Research and Innovation) operates the Rutherford Appleton Laboratory at Harwell in Oxfordshire. The Laboratory provides facilities including the ISIS pulsed neutron and muon source that is used in research areas ranging from clean energy and the environment to pharmaceuticals, nanotechnology and information technology. Radioactive wastes are generated from the activation of components that fail or become redundant. Future waste arisings will depend on the continued funding of the site.

Waste volume

Waste	Reported volume at	Reported future	All wastes at 1 April 2022	All wastes at 1 April 2022 and future arisings					
type	1 April 2022 (m³)	arisings (m³)	Reported volume (m³)	Packaged volume (m³)	Number of packages				
ILW ⁽¹⁾	25.4	4,250	4,280	1,200	122				
LLW	262	3,090	3,350	795	8				
VLLW	20	7.95	28.0	15.1	Not quantified				
Total	307	7,350	7,660	2,010	129				

(1) Some packaged ILW will be disposed of as LLW.

Profile of waste arisings



Radioactivity

Wasta satamani	Total activity (TBq)								
Waste category	At 1.4.2022		At 1.4.2050	At 1.4.2200					
ILW	6500		6,000	62					
LLW	1.6		2.1	0.35					
VLLW	0.04		0.04	0.01					
Total	6,500		6,000	62					



Aerial view of Sellafield site



Active waste retrievals, Berkeley

7 LIST OF WASTE STREAMS IN THE INVENTORY AND THEIR VOLUMES

The table below shows the number of waste streams in the 2022 Inventory for each waste type from each waste producer.

Table 7.1 Number of waste streams in the 2022 Inventory

Site owner	HLW	ILW	LLW	VLLW	Total
NDA	4	505	415	24	948
Ministry of Defence		23	42		65
EDF Energy		100	141		241
United Kingdom Atomic Energy Authority		3	13		16
GE Healthcare		5	5		10
Urenco		2	14	3	19
NNB GenCo (HPC) Ltd		4	8		12
Minor waste producers		8	4	1	13
Total	4	650	642	28	1,324

All 1,324 waste streams in the 2022 Inventory are listed on the following pages in order of waste stream identifier (see box below). Each site is identified, together with the site owner and waste custodian. For sites with operational and decommissioning wastes, the operational waste streams are listed first.

The following information is given for each waste stream:

- Stream identifier, stream title and waste type
- Reported volume of waste at 1 April 2022 and reported volume of waste for projected future arisings
- Forecast total packaged volume and number of waste packages when all stocks at 1 April 2022 and projected future arisings have been packaged.

Further information on the reporting of waste volumes can be found in the UK Radioactive Waste Inventory report. The forecast packaged volume and number of waste packages are determined from waste packaging plans. For those waste streams where waste packaging plans are not yet fully defined, assumptions have been made so that total package numbers and packaged volumes can be estimated.

The reported volume of waste (at 1 April 2022, future arisings and total) is the reported value in cubic metres (m³) to 1 decimal place. Reported volumes of less than 0.05 m³ are displayed as "<0.1". The packaged volume and number of waste packages for wastes at 1 April 2022 and future arisings are calculated values given to three significant figures. If any values are below ten, this is given to the nearest 0.1. Calculated fractional package numbers for waste streams are not rounded up to the nearest whole number as this would overestimate the number of packages. This is particularly true where small volume waste streams of the same type and the same or similar composition at a site will be packaged together.

Total volumes and package numbers are zero for waste streams that are to be incinerated or recycled, or where arisings are not estimated.

VLLW may be disposed to appropriately permitted landfill sites. Package numbers for these wastes are not reported as the Inventory does not collate information on how wastes are consigned to landfill.

Waste stream identification

The fundamental designation used in the Inventory is that of the waste stream. Waste streams include waste or a collection of waste items at a particular site, usually in a particular facility and/or from particular processes or operations. A waste stream is often distinguishable by its radionuclide content and in many cases also by its physical and chemical characteristics. Each waste stream in the Inventory is allocated a unique identification code.

The first two characters uniquely identify the site (and hence its custodian) and are followed by a two- or three- digit number. Numbers in the range 01 to 99 identify operational wastes, and a three-digit number identifies decommissioning wastes. For example:

Waste stream 3K02 3K (custodian = EDF Energy; site = Hartlepool)

02 (operational waste)

In some cases the two- or three-digit number may be supplemented by decimals (e.g. 2D96.1 or 2D87.2.3). A /C suffix in the identification code (e.g. 2D38/C) is included for waste conditioned in a suitable container for long-term management, and/or waste that is being conditioned directly as it arises.

The reported identifiers are not sequential because over time some waste streams have been amalgamated, others split up and renumbered. Some LLW and VLLW streams have been disposed and so are no longer reported.

Site Owner	Site Owner - Waste Custodian - Site		Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged	
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾
GE Healthca	re - GE Healthcare - Amersham						
1A01	LLW Compactable Drummable	LLW	31.8	75.0	106.8	110	0.7
1A02	LLW Non-Compactable Drummable	LLW	28.0	350.0	378.0	389	2.4
1A03	LLW Non-Compactable Non-Drummable	LLW	113.4	527.0	640.4	680	10.3
1A04	LLW Non-Compactable Drummable (Spoil)	LLW	0	1,000.0	1,000.0	1,000	0
1A07	ILW	ILW	172.0	50.5	222.5	273	477
1A08	Decay Stored Waste	ILW	2.0	0	2.0	1.8	0
1A09	Incinerated Waste	LLW	1.7	5.0	6.7	0	0
1A10	ILW Containing Radium	ILW	2.0	9.0	11.0	13.5	23.6
1A11	Sealed Sources	ILW	< 0.1	0	< 0.1	<0.1	<0.1
1A12	ILW Containing Tritium	ILW	184.5	0	184.5	0	0
Nuclear Dec	ommissioning Authority - Sellafield Ltd - Sellafield						
2A01	Redundant Activated Control Rods ILW	ILW	2.9	0	2.9	6.9	1.5
2A06	Redundant Activated Control Rods LLW	LLW	7.6	0	7.6	14.8	0.8
2A07	Redundant Fuel Transport Flasks & Liners	LLW	86.4	0	86.4	33.7	1.7
2A30	Waste Oils	LLW	10.0	5.0	15.0	0	0
2A910	Care and Maintenance Preparation (Reactor LLW)	LLW	0	4,122.8	4,122.8	402	20.6
2A100	Care & Maintenance: General Reactor LLW	LLW	0	122.0	122.0	0	0
2A303	Final Dismantling & Site Clearance : Graphite LLW	LLW	0	6.3	6.3	6.7	0.3
2A304	Final Dismantling & Site Clearance : Mild Steel (Reactor) LLW	LLW	0	8,141.0	8,141.0	3,170	163
2A305	Final Dismantling & Site Clearance : Stainless Steel (Reactor) LLW	LLW	0	6.0	6.0	2.3	0.1
2A306	Final Dismantling & Site Clearance : Mild Steel (Non-Reactor) LLW	LLW	0	4,235.0	4,235.0	1,650	84.7
2A307	Final Dismantling & Site Clearance Concrete (Reactor & Non-Reactor) LLW	LLW	0	16,604.0	16,604.0	18,200	166
2A308	Final Dismantling & Site Clearance: Misc Metals & Materials (Reactor and Non-Reactor) LLW	LLW	0	721.0	721.0	281	14.4
2A309	Final Dismantling & Site Clearance: Secondary LLW	LLW	0	1,113.0	1,113.0	260	13.4
2A310	Final Dismantling & Site Clearance: Graphite ILW	ILW	0	3,633.2	3,633.2	9,010	2,730
2A311	Final Dismantling & Site Clearance : Mild Steel (Reactor) ILW	ILW	0	654.0	654.0	1,620	492
2A312	Final Dismantling & Site Clearance : Stainless Steel (Reactor) ILW	ILW	0	80.0	80.0	198	60.2
	. ,						

Site Owner - Waste Custodian - Site		Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged	
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾
2A313	Final Dismantling & Site Clearance : Miscellaneous Metal (Reactor) ILW	ILW	0	21.2	21.2	52.6	15.9
Nuclear Dec	ommissioning Authority - Magnox Ltd - Chapelcross						
2C01	Ion Exchange Resins AW500 (Zeolite)	ILW	39.4	0	39.4	593	50.0
2C03	Miscellaneous Reactor Components Stored dry	ILW	13.0	0	13.0	16.1	0.8
2C04	Waste Oil	LLW	13.0	0	13.0	0	0
2C05	Sludge	ILW	19.0	0	19.0	29.0	22.0
2C06	Ceramic Pellets	ILW	4.0	0	4.0	11.4	20.0
2C07	Contaminated Plant Components (CXPP Cave Line)	ILW	5.0	0	5.0	25.0	43.9
2C08	Hydraulic Fluid	LLW	0.9	0	0.9	0	0
2C15	Rotary Pump Oil	ILW	0.3	0	0.3	0	0
2C20	Fuel Skips in Pond	ILW	84.3	0	84.3	156	13.2
2C23	Desiccant	ILW	15.0	0	15.0	48.8	2.5
2C28	Miscellaneous Reactor Components stored wet	JĽW	5.0	0	5.0	7.9	6.0
2C28/C	Miscellaneous Reactor Components	ILW	2.0	0	2.0	25.1	19.0
2C29	Vacuum Furnaces	ILW	0.6	0	0.6	1.1	2.0
2C30	Uranium Furnaces	ILW	0.7	0	0.7	3.4	6.0
2C31	Cobalt Cartridges	ILW	0.1	0	0.1	7.9	6.0
2C32	CEGB Cartridges (Bradwell)	ILW	0.2	0	0.2	0.6	1.0
2C33	Activated Charcoal	LLW	0	90.0	90.0	0	0
2C34	Spark Arrestors	ILW	1.5	0	1.5	6.9	12.0
2C35	Tritiated Mercury	LLW	<0.1	0	<0.1	< 0.1	< 0.1
2C36	Chapelcross Process Plant Product Containers	ILW	1.7	0	1.7	4.0	7.0
2C37	CXPP Delay Tank Sludges	ILW	0.2	0	0.2	0	0
2C38	Miscellaneous Activated Reactor Components	ILW	18.6	0	18.6	23.0	1.1
2C40	Large Items from Cooling Ponds VLLW	VLLW	0	909.0	909.0	909	0
2C41	Fuel Skips in Pond	LLW	43.5	0	43.5	27.6	1.4
2C42/C	Ceramic Pellets	ILW	131.0	0	131.0	131	187
2C43	High Dose Rate Items	ILW	<0.1	0	<0.1	3.9	3.0
2C920	Reactor Decommissioning Preparations	LLW	0	4,188.6	4,188.6	2,380	12.6

Site Owner -	Waste Custodian - Site	Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged	
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾
2C921	Ponds LLW	LLW	0	2,159.6	2,159.6	1,710	32.4
2C923	Pipeline Steel LLW	LLW	0	501.5	501.5	0	0
2C925	Chapelcross Processing Plant Dismantling LLW	LLW	263.4	2,371.5	2,634.9	427	0.1
2C926	Chapelcross Processing Plant Dismantling ILW	ILW	0	30.0	30.0	45.7	80.0
2C929	Pipeline Lime Scale	VLLW	0	11.2	11.2	11.2	0
2C931	LLW Radioactive Sources	LLW	< 0.1	<0.1	<0.1	0.1	<0.1
2C932	Graphite Handling Facility LLW	LLW	20.7	0	20.7	19.9	0
2C933	MAETP ILW Resin	ILW	0	0.5	0.5	1.3	1.0
2C100	General Reactor LLW	LLW	0	108.0	108.0	0	0
2C303	Contaminated Soil	LLW	0 /	1,000.0	1,000.0	1,000	0
2C304	Graphite LLW	LLW	0	6.0	6.0	6.0	0
2C305	Mild Steel (Reactor) LLW	LLW	0	221.0	221.0	431	22.1
2C306	Stainless Steel (Reactor) Recycle LLW	LLW	0	4.6	4.6	0	0
2C307	Mild Steel (Non-Reactor) LLW	LLW	0	4,235.0	4,235.0	4,240	0
2C308	Concrete (Reactor and Non-Reactor) LLW	LLW	0	34,903.1	34,903.1	34,900	0
2C309	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	480.0	480.0	480	0
2C310	Secondary Wastes LLW	LLW	0	1,114.0	1,114.0	1,110	0
2C311	Graphite ILW	ILW	0	3,647.0	3,647.0	4,510	225
2C312	Mild Steel (Reactor) ILW	ILW	0	782.0	782.0	967	48.3
2C313	Stainless Steel (Reactor) ILW	ILW	0	80.0	80.0	170	8.5
2C314	Miscellaneous Metal (Reactor) ILW	ILW	0	21.0	21.0	44.7	2.2
2C316	Miscellaneous Metals and Materials (Reactor and Non-Reactor) VLLW	VLLW	0	110.0	110.0	110	0
2C317	Mild Steel (Reactor) Recycle LLW	LLW	0	5,557.0	5,557.0	0	0
Nuclear Dec	ommissioning Authority - Sellafield Ltd - Sellafield						
2D02	High Level Liquid Waste	HLW	1,060.5	-396.8	663.8	153	781
2D02/C	Vitrified High Level Waste - Magnox	HLW	455.3	0	455.3	595	3,040
2D03	Plutonium Contaminated Materials; Drums	ILW	1,636.8	4,703.2	6,340.0	3,380	5,920
2D06	Plutonium Contaminated Materials; Crates and Filters	ILW	4,991.2	617.4	5,608.6	3,790	6,650
2D07	Pile Fuel Cladding and Miscellaneous Solid Waste	ILW	3,203.0	0	3,203.0	7,350	2,230
2D08.1	MSSS Compartment 1	ILW	606.0	0	606.0	2,210	670

Site Owner	- Waste Custodian - Site	Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
2D08.2	MSSS Compartment 2	ILW	567.0	0	567.0	2,180	662	
2D08.3	MSSS Compartment 3	ILW	584.0	0	584.0	2,260	684	
2D08.4	MSSS Compartment 4	ILW	599.0	0	599.0	2,500	757	
2D08.5	MSSS Compartment 5	ILW	490.0	0	490.0	2,220	674	
2D08.6	MSSS Compartment 6	ILW	514.0	0	514.0	2,240	678	
2D09.1	MSSS Compartment 7	ILW	598.0	0	598.0	2,820	855	
2D09.2	MSSS Compartment 8	ILW	584.0	0	584.0	2,520	764	
2D09.3	MSSS Compartment 9	ILW	564.0	0	564.0	2,510	761	
2D09.4	MSSS Compartment 10	ILW	598.0	0	598.0	2,500	757	
2D09.5	MSSS Compartment 12	ILW	537.0	0	537.0	2,690	816	
2D11	Pond Sludge	ILW	296.0	0	296.0	676	1,180	
2D11/C	Conditioned Pond Sludge	ILW	74.1	0	74.1	89.6	157	
2D12	MBGW in PFSP	ILW/	243.1	0	243.1	631	613	
2D12/C	Conditioned MBGW in PFSP	ILW	1.9	0	1.9	2.3	4.0	
2D19	Aluminium-Ferric Floc from Effluent Treatment	/ILW	4,095.0	-4,095.0	0	0	0	
2D200	Contact Handled ILW from Harwell	ILW	704.6	0	704.6	530	929	
2D201	ILW Concrete Lined Drums from Harwell	ILW	622.9	0	622.9	2,490	691	
2D202/C	Dragon Fuel from Winfrith	ILW	28.5	0	28.5	32.5	57.0	
2D203	Operational PCM from Aldermaston	ILW	5.6	0	5.6	2.9	5.1	
2D204	Decommissioning PCM from Aldermaston	ILW	31.6	0	31.6	16.4	28.7	
2D21	Solid Waste Storage Cells	ILW	440.0	0	440.0	691	210	
2D22.1	MSSS Compartment 13	ILW	473.0	0	473.0	3,000	909	
2D22.2	MSSS Compartment 14	ILW	471.0	0	471.0	2,710	820	
2D23	Filters in Concrete Box	ILW	16.0	0	16.0	19.6	5.9	
2D24.1	MSSS Compartment 16	ILW	373.0	0	373.0	2,200	666	
2D24.2	MSSS Compartment 17	ILW	442.0	0	442.0	2,610	790	
2D24.3	MSSS Compartment 18	ILW	441.0	0	441.0	2,600	788	
2D25	MSSS - Compartment 15	ILW	389.0	0	389.0	2,570	778	
2D26	Ion Exchange Material (Clinoptilolite) and Sand	ILW	1,445.0	1,520.0	2,965.0	5,570	1,540	
2D27/C	Encapsulated Floc from Effluent Treatment	ILW	9,824.4	5,409.3	15,233.7	17,400	30,500	

Site Owner	Site Owner - Waste Custodian - Site		Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged	
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾
2D31	Magnox Fuel Transport Flasks	LLW	461.8	0	461.8	45.0	2.3
2D33	Fuel Handling Plant Sludges	ILW	33.0	0	33.0	136	41.3
2D34	Sludge from Sand Filters and Transfers	ILW	956.0	57.0	1,013.0	1,640	454
2D35.1	MSSS Compartment 19	ILW	156.0	0	156.0	924	280
2D35.2	MSSS Compartment 20	ILW	171.0	0	171.0	1,010	306
2D35.3	MSSS Compartment 21	ILW	144.0	0	144.0	855	259
2D35.4	MSSS Compartment 22	ILW	296.0	0	296.0	1,760	533
2D35/C	Encapsulated Retrieved Magnox Cladding	ILW	1,209.3	0	1,209.3	1,410	2,480
2D38/C	Encapsulated Magnox Cladding	ILW	10,196.8	39.0	10,235.8	12,000	21,000
2D39	Miscellaneous Beta/Gamma Waste Store	ILW	3,507.0	2,705.5	6,212.5	8,340	1,780
2D42	Magnox Pond Furniture	ILW	0	4,112.0	4,112.0	4,390	225
2D43	Pond Skips	LLW	332.8	0	332.8	0	0
2D45	Magnox Fuel End Crops	ILW/	27.7	0	27.7	42.5	12.9
2D55	Stored Filters	ILW	14.0	0	14.0	54.4	16.5
2D56	Effluent Plants Maintenance Waste	/ ILW	0.4	2.0	2.4	5.7	1.2
2D57	Hydrocyclone Solids from Effluent Treatment	ILW	< 0.1	3.0	3.0	3.4	6.0
2D64	Magnox Interfacial Crud - ILW	ILW	10.0	-10.0	0	0	0
2D73	MSSS - Miscellaneous Beta/Gamma Waste in Voids	ILW	10.0	0	10.0	15.3	4.7
2D74	Pile Fuel Storage Pond Ion Exchange Material	ILW	0.5	0.5	1.0	1.2	2.1
2D74/C	Conditioned Pile Fuel Storage Pond Ion Exchange Material	ILW	7.0	0	7.0	8.0	14.0
2D76/C	Encapsulated Retrieved Pond Sludge	ILW	0.5	0	0.5	0.6	1.0
2D77/C	Encapsulated Retrieved Miscellaneous Beta/Gamma Waste	ILW	0.5	0	0.5	0.6	1.0
2D83/C	Encapsulated Plutonium Contaminated Materials	ILW	3,634.5	0	3,634.5	4,150	7,270
2D90	Plutonium Contaminated Materials; Drums	ILW	3,243.6	4,911.0	8,154.6	6,070	10,600
2D93	Acidic Sample Waste in Analytical Services	ILW	0.8	0.1	0.9	1.0	1.8
2D95.1	Magnox Fuel Storage Pond Sludge	ILW	1,229.9	0	1,229.9	4,710	8,250
2D95.2	Settling Pond Sludge	ILW	75.0	0	75.0	159	278
2D95.3	Sludge Settling Tank	ILW	26.5	0	26.5	110	33.2
2D95.4	Decanner Settling Tank Sludge	ILW	35.0	0	35.0	134	235
2D95.5	Sludge in SPP1 Buffer	ILW	193.1	0	193.1	740	1,300

Site Owner - Waste Custodian - Site		Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged	
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾
2D96.2	FGMSP Non Fuel Bearing Materials	ILW	2,015.8	0	2,015.8	2,870	871
2D96.4	Ion Exchange Material in Skips (AW500)	ILW	302.6	0	302.6	782	237
2D96.5	FGMSP Fuel Bearing Materials	ILW	37.0	0	37.0	112	16.8
2D97	Miscellaneous Trench Silt ILW/LLW	ILW	43.0	430.0	473.0	557	169
2D98	MSSS Secondary ILW from SMF	ILW	0	177.1	177.1	555	161
2D100	Pile Chimney Decommissioning Waste	ILW	39.4	0	39.4	108	32.8
2D108	Miscellaneous Plants Initial/Interim Decommissioning: Ponds	LLW	0	2,680.5	2,680.5	599	30.7
2D109	Miscellaneous Plants Initial/Interim Decommissioning: Processing Plants, Tanks, Silos etc.	LLW	0	31,567.6	31,567.6	7,060	362
2D110	Miscellaneous Plants Initial/Interim Decommissioning: Product Stores	LLW	0 /	1,419.9	1,419.9	317	16.3
2D111	Plutonium Plants Initial/Interim Decommissioning: Processing Plants	LLW	0	2,141.7	2,141.7	532	27.3
2D112	Plutonium Plants Initial/Interim Decommissioning: Stores	LLW	0	214.4	214.4	47.9	2.5
2D113	Uranium Plants Initial/Interim Decommissioning: Processing Plants	LLW	0	984.3	984.3	208	10.7
2D114	Uranium Plants Initial/Interim Decommissioning: Stores	LĽW	0	78.9	78.9	17.6	0.9
2D115	Miscellaneous Plants Initial/Interim Decommissioning: Ponds	ILW	0	387.3	387.3	2,420	733
2D116	Miscellaneous Plants Initial/Interim Decommissioning: Processing Plants, Tanks, Silos etc.	ILW	0	17,227.0	17,227.0	101,000	31,300
2D117	Miscellaneous Plants Initial/Interim Decommissioning: Product Stores	ILW	0	84.1	84.1	544	165
2D118	Plutonium Plants Initial/Interim Decommissioning: Processing Plants	ILW	0	118.2	118.2	765	232
2D120	Uranium Plants Initial/Interim Decommissioning: Processing Plants	ILW	0	14.6	14.6	94.5	27.1
2D122	Miscellaneous Plants Final Decommissioning: Ponds	LLW	0	1,887.7	1,887.7	1,470	0
2D123	Miscellaneous Plants Final Decommissioning: Processing Plants, Tanks, Silos, etc.	LLW	0	34,214.6	34,214.6	30,300	534
2D124	Miscellaneous Plants Final Decommissioning: Product Stores	LLW	0	6,770.8	6,770.8	5,280	0
2D125	Plutonium Plants Final Decommissioning: Processing Plants	LLW	0	635.4	635.4	489	0
2D126	Plutonium Plants Final Decommissioning: Stores	LLW	0	1,216.6	1,216.6	1,070	0
2D127	Uranium Plants Final Decommissioning: Processing Plants	LLW	0	457.6	457.6	348	0
2D130	Miscellaneous Plants Initial/Interim Decommissioning: Processing Plants, Tanks, Silos, etc (PCM)	ILW	0	5,014.0	5,014.0	12,000	21,000

Site Owner	Site Owner - Waste Custodian - Site		Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged	
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾
2D132	Plutonium Plants Initial/Interim Decommissioning: Processing Plants (PCM)	ILW	0	2,494.5	2,494.5	5,960	10,400
2D133	Plutonium Plants Initial/Interim Decommissioning: Stores (PCM)	ILW	0	546.3	546.3	1,310	2,290
2D136	Miscellaneous Plants Final Decommissioning: Ponds	ILW	0	249.0	249.0	940	285
2D137	Miscellaneous Plants Final Decommissioning: Processing Plants, Tanks, Silos, etc.	ILW	0	12,468.4	12,468.4	38,800	11,800
2D148	HVVLLW from Final Decommissioning	VLLW	0	2,646,821.3	2,646,821.3	2,510,000	0
Nuclear Dec	ommissioning Authority - Springfields Fuels Ltd - Springfields						
2E15	Drummed Waste for Disposal at LLW Repository	LLW	2.0	15.0	17.0	18.1	0.9
2E90	General Waste for Clifton Marsh Disposal	LLW	1,000.0	99,000.0	100,000.0	100,000	0
2E91	Process Wastes for Clifton Marsh	LLW	30.0	94.0	124.0	124	0
2E101	Decommissioning LLW	LLW	0	982.0	982.0	1,050	53.7
2E191	Decommissioning Wastes for Clifton Marsh Disposal	LLW	200.0	222,882.0	223,082.0	212,000	0
Nuclear Dec	ommissioning Authority - Sellafield Ltd - Sellafield						
2F01/C	Vitrified High Level Waste	HLW	473.4	59.3	532.7	696	3,550
2F02	Plutonium Contaminated Materials; Drums	ILW	60.0	70.6	130.6	69.6	122
2F03/C	Encapsulated AGR Cladding	ILW	1,999.5	0	1,999.5	2,250	3,940
2F04/C	Encapsulated LWR Cladding	ILW	1,825.8	0	1,825.8	2,050	3,590
2F06/C	Encapsulated Barium Carbonate Slurry/MEB Crud	ILW	612.7	24.5	637.2	771	1,350
2F07	AGR Graphite Fuel Assembly Components	ILW	5,688.1	1,707.6	7,395.7	11,500	20,200
2F08	AGR Stainless Steel Fuel Assembly Components	ILW	586.3	182.7	769.0	1,200	2,100
2F10/C	Encapsulated Centrifuge Cake	ILW	476.2	245.4	721.6	873	1,530
2F14	AGR Pond Furniture (Containers, Skips, Racks)	LLW	0	10,794.0	10,794.0	2,100	108
2F15	LWR Pond Furniture (MEBs)	ILW	0	2,383.9	2,383.9	1,860	95.4
2F17	Excellox Flasks	LLW	1,223.4	0	1,223.4	119	6.1
2F20	LWR Pond Furniture (Racks and Frames) from First Generation Oxide Storage Pond	LLW	0	7,584.0	7,584.0	0	0
2F21/C	Encapsulated Maintenance Scrap	ILW	103.0	0	103.0	118	206
2F22/C	High Level Contaminated Waste	HLW	0	22.5	22.5	29.4	150
2F26	LWR Pond Sludge	ILW	24.0	15.0	39.0	47.8	83.7

Site Owner	- Waste Custodian - Site	Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged	
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾
2F27	AGR Pond Sludge	ILW	6.6	3.6	10.2	12.5	21.8
2F28	Interfacial Crud - ILW/LLW	ILW	0.5	0.1	0.6	0.7	1.3
2F31	MSSS Compartment 11	ILW	74.4	0	74.4	353	107
2F34	Plutonium Contaminated Materials; Drums	ILW	14.2	31.4	45.6	24.3	42.6
2F35	Tn 17 and NTL 11 Flasks	LLW	128.2	0	128.2	12.5	0.6
2F36	LWR Pond Furniture	LLW	0	770.7	770.7	601	30.8
2F40	Fuel Support Frames	LLW	17.7	0	17.7	1.7	0.1
2F41	LWR Pond Furniture (MEBs) in Interim Storage	LLW	742.6	0	742.6	579	29.7
2F42/C	Encapsulated MEP, Thorp and WEP POCO	ILW	0	274.5	274.5	313	549
Nuclear Dec	ommissioning Authority - LLWR SLC Ltd - LLWR						
2N01	Legacy Drum Sampling Secondary Waste	LLW	15.3	0	15.3	19.5	1.0
2N03	Plutonium Contaminated Material; Drummed (Operational Mixed Waste)	ILW	360.6	0	360.6	172	301
2N04	LLW from PCM Operations	ĻĽW	97.5	0	97.5	97.5	5.0
2N06	LLW from Site LLW Operations	VLLW	19.5	755.0	774.5	697	0
2N14	LLW from PCM Operations for Metal Treatment	LLW	59.5	0	59.5	0	0
2N15	LLW from PCM Operations for Combustible Treatment	LLW	69.7	0	69.7	0	0
2N16	VLLW from PCM Operations	VLLW	38.5	0	38.5	38.5	0
2N17	Legacy Drums (Bulk)	ILW	34.7	0	34.7	42.5	74.5
2N18	Low Level Waste Drums	LLW	4.0	0	4.0	22.3	1.0
Nuclear Dec	ommissioning Authority - National Nuclear Laboratory - Sellafield						
2P03	BTC Level 3 Laboratories and Other General Active Areas	LLW	0	130.0	130.0	21.8	1.0
2P05	BTC Rig Hall	LLW	11.1	0	11.1	3.3	0.2
2P07	NNL Tc-99 lab waste	LLW	0.6	0	0.6	0.6	< 0.1
Nuclear Dec	ommissioning Authority - Sellafield Ltd - Sellafield						
2S09	Waste from P.I.E. Operations	ILW	3.8	21.0	24.8	162	42.1
2S11	Windscale Uranic Residues	ILW	0.2	0	0.2	0.3	0.1
2S302	Windscale Pile1 and Pile 2 Graphite and Aluminium Charge Pans	ILW	0	1,928.0	1,928.0	4,580	1,390
2S303	Windscale Pile 2 LLW	LLW	0	3,650.0	3,650.0	4,980	256
2S304	Windscale Piles Fuel and Isotopes	ILW	0.1	39.7	39.8	101	30.6

Site Owner - Waste Custodian - Site		Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged	
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾
2S308/C	Conditioned WAGR Decommissioning ILW	ILW	610.6	6.0	616.6	1,270	107
2S309	AGR Examination Caves LLW	LLW	0	457.8	457.8	302	15.5
2S310	AGR Examination Caves ILW	ILW	0	40.0	40.0	47.1	14.3
2S311	Other Facilities Decommissioning LLW	LLW	0.5	2,444.5	2,445.0	3,810	196
2S312	Other Facilities Decommissioning ILW	ILW	1.0	118.0	119.0	327	99.2
2S313	Windscale Piles Miscellaneous ILW	ILW	6.8	798.0	804.8	5,480	1,660
2S314	WAGR - HVVLLW	VLLW	0	6,656.0	6,656.0	6,660	0
Nuclear Dec	commissioning Authority - Sellafield Ltd - Sellafield						
2X01	PCM Stores and WTC LLW	LLW	0	2,730.5	2,730.5	311	15.6
2X01/3	North Group Complex LLW	LLW	0	3,001.0	3,001.0	3,000	<0.1
2X02	Disposal of Solid LLW from Magnox PF&S	LLW	0	1,970.2	1,970.2	753	33.9
2X03	Decontamination Centre LLW	LLW	0	340.7	340.7	295	0.9
2X05	Solid LLW from Separation Area	LLW	144.7	0	144.7	33.7	1.6
2X05/1	SEP Surface Drainage System Solids and Lagoon LLW	LLW	0	1,758.3	1,758.3	1,720	5.7
2X06	LLW arising from the redundant NNL facilities AC&M LLW	LLW	0	108.1	108.1	47.8	2.4
2X08	LLW from Reprocessing Plant General Areas	LLW	0	270.6	270.6	101	5.1
2X09	Reprocessing Plant: PS1 and Dissolver Tower Area LLW	LLW	0	34.7	34.7	7.5	0.4
2X10	Reprocessing Plant: Thermal Denitration Plant Area and UO ₃ Rework Facility LLW	LLW	0	399.1	399.1	144	7.2
2X11	Reprocessing Plant: MA Evaporator Area	LLW	0	113.4	113.4	51.3	2.6
2X15	HLW Plants: HA Evaporation & Storage LLW	LLW	0	1,459.2	1,459.2	467	17.9
2X16	Low Active Effluent Management Group: Salt Evaporator LLW	LLW	0	81.8	81.8	95.1	4.9
2X17	Disposal of LLW from MA Tanks	LLW	0	42.5	42.5	14.5	0.7
2X18	Low Active Effluent Management Group: LA Treatment LLW	LLW	0	28.8	28.8	9.7	0.5
2X19	Low Active Effluent Management Group: SETP LLW	LLW	0	116.5	116.5	82.0	4.2
2X19/2	Low Active Effluent Management Group: LA LLW	LLW	0	205.1	205.1	24.3	1.2
2X20	LLW from Magnox Storage Pond and Decanning Facility	LLW	0	1,939.2	1,939.2	522	20.8
2X21/3	LLW from the Flask Maintenance Facility	LLW	0	332.2	332.2	76.5	3.9
2X22	Calder Reactor LLW	LLW	0	1,535.5	1,535.5	638	27.0
2X22/1	LLW from Calder Cooling Water System	LLW	0	3.1	3.1	0	0

Site Owner	Site Owner - Waste Custodian - Site		Reported v	olume (m³)		When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
2X25	Disposal of LLW from Fuel Handling Plant	LLW	0	3,254.6	3,254.6	211	10.6	
2X26	Disposal of LLW from SIXEP	LLW	0	1,366.3	1,366.3	264	13.2	
2X27	LLW arising from the Advanced Gas Reactor Dismantler	LLW	0	924.0	924.0	106	5.3	
2X28	LLW disposal from Wet Inlet Facility	LLW	0	328.9	328.9	24.0	1.2	
2X29	Solid LLW from LWR Storage Pond	LLW	0	164.4	164.4	49.3	2.5	
2X30	Solid LLW from AGR Storage Pond	LLW	0	86.2	86.2	15.1	0.8	
2X31	Solid LLW from Oxide Flask Maintenance Facility and Railways	LLW	0	3,603.4	3,603.4	1,270	15.1	
2X32	LLW arising from the Receipt and Storage Area of THORP	LLW	0	2,295.2	2,295.2	145	7.3	
2X33	Magnox Fuel Reprocessing Plant - Plutonium Areas	LLW	0	141.2	141.2	42.9	2.1	
2X34	Separation Area Ventilation LLW	LLW	0	241.2	241.2	81.4	4.1	
2X35	Solid LLW from MEP	LLW	0	959.3	959.3	61.7	3.1	
2X36	LLW arising from the Waste Encapsulation Plant	LLW	0	845.1	845.1	64.9	2.9	
2X37	Miscellaneous Beta Gamma Waste Store LLW	LLW	0	555.4	555.4	55.1	2.8	
2X39	LLW from Waste Vitrification Plant (WVP) Areas	LŁW	0	1,078.5	1,078.5	85.7	4.3	
2X40	PCM Drums Reclassified To LLW	LLW	172.8	0	172.8	58.3	2.9	
2X49	LLW from the Active Area Laundry and Associated Drain Sumps	LLW	0	14,697.8	14,697.8	1,170	59.4	
2X50	Solid LLW from Effluent Plants and Associated Stores	LLW	0	1,267.4	1,267.4	566	28.6	
2X51	Disposal of LLW from the Thorp Feed Pond area	LLW	0	449.2	449.2	19.7	1.0	
2X52	Thorp Head End LLW	LLW	0	168.1	168.1	12.8	0.6	
2X53	Disposal of LLW from Thorp UP/UF and HA/UP areas	LLW	0	43.4	43.4	14.7	0.7	
2X54	Disposal of LLW from the Thorp PP/PF and SPRS	LLW	0	104.5	104.5	28.7	1.4	
2X55	Disposal of solid LLW from Uranium (IV) area of Thorp	LLW	0	59.2	59.2	22.2	1.1	
2X57	Thorp Chemical Separation Area LLW	LLW	0	485.0	485.0	138	6.9	
2X59	Disposal of solid LLW from PIE Laboratory	LLW	0	2.6	2.6	1.3	0.1	
2X61	LLW arising from WAMAC	LLW	0	97.8	97.8	15.1	0.8	
2X62	Sellafield Mox Plant LLW (Uranium Areas)	LLW	0	20.9	20.9	6.8	0.3	
2X64	SMP LLW (MOX & Pu Areas)	LLW	0	190.9	190.9	61.2	3.1	
2X68	Disposal of LLW from Analytical Services Facilities	LLW	0	16,736.7	16,736.7	3,090	154	
2X71	Solvent Treatment Plant LLW	LLW	0	21.2	21.2	8.5	0.4	
2X72	Oxide Transport Containers (Baskets and Stools)	LLW	5.8	0	5.8	0.6	<0.1	

Site Owner - Waste Custodian - Site		Waste	Reported v	olume (m³)		When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
2X74	LLW from Mixed Oxide Areas of the MOX Demonstration Facility	LLW	0	385.2	385.2	101	5.1	
2X82	Low Active Drain (LAD) Zones 5-9 LLW	LLW	0	54.5	54.5	15.9	0.4	
2X83	Low Active Drain (LAD) Zone 4 LLW	LLW	0	10.8	10.8	8.0	<0.1	
2X84	Low Active Drain (LAD) Zones 1&3 LLW	LLW	0	0.6	0.6	0.1	<0.1	
2X85	Low Active Effluent Management Group (LAEMG) LLW	LLW	0	15.5	15.5	4.8	0.2	
2X108/4	Separation Head Plant Outcell Areas LLW	LLW	0	1,770.5	1,770.5	558	28.4	
2X114/1	Caesium Extraction Plant Decommissioning LLW	LLW	0	76.4	76.4	7.2	0.4	
2X115/12	Pile Chimney Decommissioning LLW	LLW	0	443.1	443.1	376	9.2	
2X116/4	Disposal of Solid LLW from PFR	LLW	0	118.1	118.1	42.4	2.1	
2X117/1	Disposal of LLW from the PFSP Decommissioning	LLW	0 /	1,156.5	1,156.5	725	32.2	
2X118	Purification and Recovery Plant Decommissioning LLW	LLW	0	654.5	654.5	154	7.7	
2X119/2	Solid LLW from Solvent Recovery Plant Outcell Areas	LLW	0	278.8	278.8	126	6.5	
2X119/5	LLW from Solvent Recovery Plant Cell 3	LLW	0	38.2	38.2	1.5	0.1	
2X119/7	Solid LLW from Thorp Miniature Pilot Plant	LĽW	0	9.0	9.0	4.1	0.2	
2X119/9	LLW from the post irradiation examination (PIE) cave in cell 6	LLW	0	4,113.8	4,113.8	4,000	205	
2X122/2	Solid LLW from Labs 52, 54, 54A & 55	LLW	0	22.4	22.4	11.3	0.6	
2X122/4	LLW from Analytical Services Lab 188C	LLW	0	< 0.1	<0.1	<0.1	<0.1	
2X124	Disposal of secondary waste associated with plant refurbishment and maintenance of the Pile Fuel Cladding Silo (PFCS) LLW	LLW	0	35.5	35.5	45.3	1.0	
2X124/1	LLW from Pile Fuel Cladding Silo General Areas	LLW	0	145.3	145.3	20.4	1.0	
2X125	Magnox Swarf Storage Silo Decommissioning LLW	LLW	0	5,839.6	5,839.6	1,950	96.9	
2X127	Legacy Ponds and Silos Workshop & Incident Control Centre LLW	LLW	0	23.2	23.2	2.7	0.1	
2X130/1	North Group Compound Crate Storage Area LLW	LLW	0	5.2	5.2	3.9	0.2	
2X131/1	LLW from Medium Active Solid Waste Storage Outcell Areas	LLW	0	17.6	17.6	3.5	0.2	
2X133	Magnox Sludge Settling and Transfer Facility LLW	LLW	0	453.7	453.7	265	9.7	
2X134	Disposal of LLW from Pipebridge	LLW	0	11.1	11.1	12.7	0.6	
2X135	Silo Maintenance Facility LLW	LLW	0	2,069.3	2,069.3	755	34.6	
2X137	Disposal of low level waste arising from the Interim Storage Facility (ISF)	LLW	0	81.1	81.1	31.6	1.6	
2X140/2	Disposal of LLW contaminated by authorised Aerial Discharges	LLW	0	230,515.9	230,515.9	153,000	158	

Site Owner	Site Owner - Waste Custodian - Site		Reported v	olume (m³)		When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
2X142	Retrieval of Chapelcross Skips from PFSP LLW	LLW	0	3.0	3.0	5.9	0.3	
2X301	Disposal of LLW from Pile 1 Chimney	LLW	0	124.2	124.2	36.7	1.3	
2X302/7	Fuel Element Storage and Handling LLW	LLW	0	661.7	661.7	139	5.1	
2X304	Active Handling Facility LLW	LLW	0	2,472.9	2,472.9	1,390	39.9	
2X305	LLW from Redundant Active Handling Facilities	LLW	0	472.0	472.0	92.2	3.8	
2X307/3	WAGR Solid Low Level Waste	LLW	0	296.7	296.7	93.0	3.8	
Nuclear Dec	ommissioning Authority - Sellafield Ltd - Sellafield							
2Y57	Excavated Soil and Putrescible Waste - High Volume Very Low Level Waste (HVVLLW)	VLLW	0	47,602.0	47,602.0	47,600	0	
2Y60	Miscellaneous Minor Wastes - ILW	ILW	104.4	104.4	208.8	256	448	
2Y65	Miscellaneous Minor Wastes - LLW	LLW	5.1	5.1	10.1	10.8	0.6	
EDFE NGL -	EDFE NGL - Dungeness B							
3J01	Ion Exchange Material	ILW/	42.2	7.3	49.5	141	248	
3J02	Sludge	ILW	7.4	0.8	8.2	14.2	24.8	
3J03	Miscellaneous Contaminated Items	/ILW	0	4.0	4.0	9.5	16.7	
3J04	Desiccants ILW	ILW	63.0	40.0	103.0	0	0	
3J09	Miscellaneous Activated Components - Debris Vault 3	ILW	3.0	5.3	8.3	13.6	0.7	
3J11	Reactor Vessel Internals and Dry Fuel Route LLW	LLW	37.0	182.0	219.0	23.4	1.2	
3J12	General Reactor LLW	LLW	22.0	100.0	122.0	13.0	0.7	
3J13	Wet Fuel Route LLW	LLW	18.9	196.0	214.9	22.9	1.2	
3J19	Catalysts LLW	LLW	1.1	0	1.1	3.5	0.2	
3J20	Catalysts ILW	ILW	1.0	1.2	2.2	7.0	0.4	
3J22	Miscellaneous Sludges	LLW	0	3.0	3.0	3.2	0.2	
3J24	Neutron Scatter Plugs	ILW	50.6	96.0	146.6	599	29.9	
3J25	Gag Pistons	ILW	2.0	0	2.0	2.0	0.1	
3J26	Miscellaneous Activated Components - Debris Vault 1	ILW	99.9	32.5	132.4	217	10.9	
3J27	Miscellaneous Activated Components & Fuel Stringer Debris - Debris Vault 2	ILW	310.6	104.9	415.5	682	34.1	
3J28	Wet (Pond) Carbonaceous Debris	ILW	1.0	8.0	1.8	2.2	3.9	
3J114	Care & Maintenance: Miscellaneous Materials LLW	LLW	0	88.5	88.5	20.8	1.1	

Site Owner - Waste Custodian - Site		Waste	Reported v	olume (m³)			When wastes at 1.4.2022 and future arisings are packaged	
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
3J115	Care and Maintenance Preparations: Wet Fuel Route LLW	LLW	0	1,021.0	1,021.0	38.6	2.0	
3J116	Care and Maintenance Preparations: General Reactor LLW	LLW	0	1,478.8	1,478.8	66.1	3.4	
3J117	Care and Maintenance Preparations: Reactor Vessel Internals and Dry Fuel Route LLW	LLW	0	1,597.0	1,597.0	504	25.8	
3J118	Care and Maintenance Preparations: DWPF Secondary Wastes LLW	LLW	0	399.6	399.6	125	6.4	
3J119	Care and Maintenance Preparations: OWPF Secondary Wastes LLW	LLW	0	399.6	399.6	125	6.4	
3J311	Decommissioning Stage 3: Stainless Steel (Reactor) ILW	ILW	0	16.0	16.0	26.3	1.3	
3J312	Decommissioning Stage 3: Mild Steel (Reactor) ILW	ILW	0	403.4	403.4	662	33.1	
3J313	Decommissioning Stage 3: Graphite ILW	ILW	0	1,959.8	1,959.8	3,680	184	
3J314	Decommissioning Stage 3: Stainless Steel (Reactor) LLW	LLW	0	2,764.4	2,764.4	877	45.0	
3J315	Decommissioning Stage 3: Mild Steel (Reactor) LLW	LLW	0	3,291.0	3,291.0	1,040	53.5	
3J317	Decommissioning Stage 3: Graphite LLW	LLW	0	1,693.8	1,693.8	2,260	113	
3J318	Stage 3 Decommissioning: Concrete (Reactor and Non-Reactor) LLW	LLW	0	785.4	785.4	838	43.0	
3J319	Stage 3 Decommissioning: Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	116.2	116.2	194	9.9	
3J320	Stage 3 Decommissioning: Secondary Wastes LLW	LLW	0	1,818.5	1,818.5	535	27.4	
EDFE NGL -	EDFE NGL - Hartlepool							
3K01	Pond Water Ion Exchange Material	ILW	11.4	1.0	12.4	35.4	62.0	
3K02	Active Effluent Filtration Sludges	LLW	43.8	9.0	52.8	0	0	
3K03	Miscellaneous Contaminated Items	ILW	0	4.2	4.2	10.4	18.3	
3K04	Desiccant	ILW	35.6	33.0	68.6	108	5.5	
3K09	Miscellaneous Activated Components - Debris Vault 1	ILW	17.5	5.2	22.7	37.3	1.9	
3K14	Gas Circulator LLW	LLW	45.0	97.3	142.3	17.5	0.9	
3K15	Dry Fuel Route LLW	LLW	11.5	82.4	93.9	13.7	0.7	
3K16	Wet Fuel Route LLW	LLW	7.5	276.7	284.2	35.6	1.8	
3K17	Waste Sorting LLW	LLW	0.4	29.0	29.4	3.8	0.2	
3K18	Pond Water Filtration Sludge	ILW	7.6	0.6	8.2	14.2	24.8	
3K20	Gas Circulator Maintenance Sludge	LLW	1.5	0.3	1.8	0	0	
3K22	Catalyst	ILW	2.6	1.6	4.2	13.4	0.7	
3K23	Miscellaneous Activated Components - Debris Vault 3	ILW	0.5	0	0.5	0.8	<0.1	

Site Owner	Site Owner - Waste Custodian - Site		Reported v	olume (m³)		When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
3K24	Miscellaneous Activated Components - Spalled Oxide & Dust	ILW	10.1	1.6	11.7	19.2	1.0	
3K25	Miscellaneous Activated Components - Debris Vault 4	ILW	168.0	59.6	227.6	374	18.7	
3K26	Laundry LLW	LLW	1.6	33.6	35.2	0.8	<0.1	
3K27	Active Effluent Ion Exchange Material	LLW	3.0	0.6	3.6	0	0	
3K28	Miscellaneous Activated Components - Tie Bar Ends & Nuts	ILW	1.8	0.6	2.4	3.9	0.2	
3K29	Bypass Blowdown Filters	ILW	4.1	0.2	4.4	10.8	19.0	
3K30	Miscellaneous Activated Components & Fuel Stringer Debris - Debris Vault 2	ILW	81.0	23.9	104.9	172	8.6	
3K31	Bypass Blowdown Filters (LLW)	LLW	2.3	6.1	8.4	120	6.0	
3K32	Wet (Pond) Carbonaceous Debris	ILW	0.6	0.6	1.2	1.5	2.6	
3K114	Care & Maintenance: Miscellaneous Materials LLW	LLW	0	100.1	100.1	23.5	1.2	
3K115	Care and Maintenance Preparations: Wet Fuel Route LLW	LLW	0	927.3	927.3	39.8	2.0	
3K116	Care and Maintenance Preparations: Dry Fuel Route LLW	LLW	0	4,351.7	4,351.7	374	19.2	
3K117	Care and Maintenance Preparations: Gas Circulator LLW	LLW	0	858.0	858.0	271	13.9	
3K118	Care and Maintenance Preparations: DWPF Secondary Wastes LLW	/LLW	0	429.0	429.0	135	6.9	
3K119	Care and Maintenance Preparations: OWPF Secondary Wastes LLW	LLW	0	429.0	429.0	135	6.9	
3K311	Decommissioning Stage 3: Stainless Steel (Reactor) ILW	ILW	0	219.0	219.0	359	18.0	
3K312	Decommissioning Stage 3: Mild Steel (Reactor) ILW	ILW	0	209.0	209.0	343	17.1	
3K313	Decommissioning Stage 3: Graphite ILW	ILW	0	2,464.8	2,464.8	3,940	197	
3K314	Decommissioning Stage 3: Stainless Steel (Reactor) LLW	LLW	0	1,221.0	1,221.0	387	19.9	
3K315	Decommissioning Stage 3: Mild Steel (Reactor) LLW	LLW	0	1,422.9	1,422.9	451	23.2	
3K317	Decommissioning Stage 3: Graphite LLW	LLW	0	453.0	453.0	604	30.2	
3K318	Stage 3 Decommissioning: Concrete (Reactor and Non-Reactor) LLW	LLW	0	1,609.4	1,609.4	1,720	88.1	
3K319	Stage 3 Decommissioning: Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	151.7	151.7	253	13.0	
3K320	Stage 3 Decommissioning: Secondary Wastes LLW	LLW	0	1,923.5	1,923.5	566	29.0	
EDFE NGL -	EDFE NGL - Heysham 1							
3L01	Pond Water Ion Exchange Material	ILW	11.9	3.1	15.0	42.8	75.0	
3L02	Pond Water Filtration Sludge	ILW	3.6	1.6	5.2	9.0	15.7	
3L03	Miscellaneous Contaminated Items	ILW	0	4.2	4.2	10.0	17.5	

	Site Owner - Waste Custodian - Site		Waste	Reported v	olume (m³)			at 1.4.2022 and s are packaged	
Substitute Sub		Title	type			Total			
3L11	3L04	Desiccant	ILW	0	33.0	33.0	0	0	
3112 Wet Fuel Route LLW 10.4 162.0 172.4 19.1 1.0 3113 Gas Circulators LLW 10.1 182.0 198.1 22.8 1.2 3115 Active Effluent Ion Exchange Material LLW 6.0 1.6 7.6 0 0 3116 Active Effluent Filtration Sludges LLW 39.0 15.5 54.5 0 0 3117 Gas Circulator Maintenance Sludge LLW 1.5 0.5 2.0 0 0 3118 Miscellaneous Sludges LLW 1.3 2.0 3.3 4.3 0.2 3119 Catalyst LLW 4.2 1.6 5.8 18.6 1.0 3120 Miscellaneous Activated Components - Debris Vault 3 LLW 0.1 3.3 3.4 5.6 0.3 3121 Miscellaneous Activated Components - Spalled Oxide and Dust LLW 0.2 0.8 1.0 1.7 0.1 3122 Fuel Stringer Debris - Debris Vault 4 LLW 0.2 0.8 1.0 1.7 0.1 3123 Miscellaneous Activated Components - Tie Bar Ends & Nuts LLW 0.3 0.5 0.8 1.3 0.1 3124 Bypass Blowdown Filters LLW 2.3 0.2 2.5 6.3 11.0 3125 Miscellaneous Activated Components & Fuel Stringer Debris - Debris LLW 2.3 0.2 2.5 6.3 11.0 3127 Bypass Blowdown Filters LLW 1.5 4.5 3.7 9.1 130 6.5 3128 Wet (Pond) Carbonaceous Debris LLW 0.6 0.6 0.6 1.2 1.5 2.6 31114 Care & Maintenance Preparations: Wet Fuel Route LLW LLW 0 90.2 90.2 3.9 3.9 2.0 31115 Care and Maintenance Preparations: Dy Fuel Route LLW LLW 0 4,574.9 4,574.9 369 18.9 31116 Care and Maintenance Preparations: Gas Circulators LLW LLW 0 351.0 351.0 110 5.7 3131 Decommissioning Stage 3: Stainless Steel (Reactor) LLW LLW 0 2,464.7 2,464.7 3,940 197 31314 Decommissioning Stage 3: Stainless Steel (Reactor) LLW LLW 0 1,221.0 387 19.9 31314 Decommissioning Stage 3: Stainless Steel (Reactor) LLW LLW 0 1,221.0 387 19.9 31314 Decommissioning Stage 3: Stainless Steel (Reactor) LLW LLW 0 1,221.0 387 19.9 31314 Decommissioning Stage 3: Stainless Steel (Reactor) LLW LLW 0	3L09	Miscellaneous Activated Components - Debris Vault 1	ILW	10.7	4.9	15.6	25.6	1.3	
Section Sect	3L11	Dry Fuel Route LLW	LLW	11.4	84.0	95.4	13.6	0.7	
Section	3L12	Wet Fuel Route LLW	LLW	10.4	162.0	172.4	19.1	1.0	
State	3L13	Gas Circulators LLW	LLW	16.1	182.0	198.1	22.8	1.2	
Sact	3L15	Active Effluent Ion Exchange Material	LLW	6.0	1.6	7.6	0	0	
SL18	3L16	Active Effluent Filtration Sludges	LLW	39.0	15.5	54.5	0	0	
State Stat	3L17	Gas Circulator Maintenance Sludge	LLW	1.5	0.5	2.0	0	0	
31.20 Miscellaneous Activated Components - Debris Vault 3 ILW 0.1 3.3 3.4 5.6 0.3 31.21 Miscellaneous Activated Components - Spalled Oxide and Dust ILW 0.2 0.8 1.0 1.7 0.1 31.22 Fuel Stringer Debris - Debris Vault 4 ILW 183.4 46.6 230.0 378 18.9 31.23 Miscellaneous Activated Components - Tie Bar Ends & Nuts ILW 0.3 0.5 0.8 1.3 0.1 31.24 Bypass Blowdown Filters ILW 0.3 0.2 2.5 6.3 11.0 31.25 Miscellaneous Activated Components & Fuel Stringer Debris - Debris ILW 78.8 23.1 101.9 167 8.4 31.27 Bypass Blowdown Filters (ILLW) ILW 5.4 3.7 9.1 130 6.5 31.28 Wet (Pond) Carbonaceous Debris ILW 0.6 0.6 1.2 1.5 2.6 31.114 Care & Maintenance: Miscellaneous Materials LLW ILW 0 96.0 96.0 22.6 1.2 31.115 Care and Maintenance Preparations: Wet Fuel Route LLW ILW 0 4,574.9 4,574.9 369 18.9 31.116 Care and Maintenance Preparations: Dry Fuel Route LLW ILW 0 700.0 700.0 221 11.3 31.118 Care and Maintenance Preparations: OWPF Secondary Wastes LLW ILW 0 351.0 351.0 110 5.7 31.311 Decommissioning Stage 3: Stainless Steel (Reactor) ILW ILW 0 209.0 209.0 343 17.1 31.313 Decommissioning Stage 3: Stainless Steel (Reactor) ILW ILW 0 2,464.7 2,464.7 3,940 197 31.314 Decommissioning Stage 3: Stainless Steel (Reactor) ILW ILW 0 2,464.7 2,464.7 3,940 197 31.314 Decommissioning Stage 3: Stainless Steel (Reactor) ILW ILW 0 0 1,221.0 1,221.0 387 19.9	3L18	Miscellaneous Sludges	LLW	1.3	2.0	3.3	4.3	0.2	
Miscellaneous Activated Components - Spalled Oxide and Dust ILW 0.2 0.8 1.0 1.7 0.1	3L19	Catalyst	ILW	4.2	1.6	5.8	18.6	1.0	
Succession Suc	3L20	Miscellaneous Activated Components - Debris Vault 3	ILW	0.1	3.3	3.4	5.6	0.3	
3L22 Fuel Stringer Debris - Debris Vault 4 ILW 183.4 46.6 230.0 378 18.9 3L23 Miscellaneous Activated Components - Tie Bar Ends & Nuts ILW 0.3 0.5 0.8 1.3 0.1 3L24 Bypass Blowdown Filters ILW 2.3 0.2 2.5 6.3 11.0 3L25 Miscellaneous Activated Components & Fuel Stringer Debris - Debris Vault 2 ILW 78.8 23.1 101.9 167 8.4 3L27 Bypass Blowdown Filters (LLW) LLW 5.4 3.7 9.1 130 6.5 3L28 Wet (Pond) Carbonaceous Debris ILW 0.6 0.6 1.2 1.5 2.6 3L114 Care & Maintenance: Miscellaneous Materials LLW LLW 0 96.0 96.0 22.6 1.2 3L115 Care and Maintenance Preparations: Wet Fuel Route LLW LLW 0 902.6 902.6 39.8 2.0 3L117 Care and Maintenance Preparations: Opy Fuel Route LLW LLW 0 700.0 700.0 <	3L21	Miscellaneous Activated Components - Spalled Oxide and Dust	ILW	0.2	0.8	1.0	1.7	0.1	
Succession Suc	3L22		ILW	183.4	46.6	230.0	378	18.9	
Niscellaneous Activated Components & Fuel Stringer Debris - Debris ILW 78.8 23.1 101.9 167 8.4	3L23	Miscellaneous Activated Components - Tie Bar Ends & Nuts	JĿW	0.3	0.5	0.8	1.3	0.1	
Nault 2 Salar Sa	3L24	Bypass Blowdown Filters	ILW	2.3	0.2	2.5	6.3	11.0	
3L28 Wet (Pond) Carbonaceous Debris ILW 0.6 0.6 1.2 1.5 2.6 3L114 Care & Maintenance: Miscellaneous Materials LLW LLW 0 96.0 96.0 22.6 1.2 3L115 Care and Maintenance Preparations: Wet Fuel Route LLW LLW 0 902.6 902.6 39.8 2.0 3L116 Care and Maintenance Preparations: Dry Fuel Route LLW LLW 0 4,574.9 4,574.9 369 18.9 3L117 Care and Maintenance Preparations: Gas Circulators LLW LLW 0 700.0 700.0 221 11.3 3L118 Care and Maintenance Preparations: DWPF Secondary Wastes LLW LLW 0 351.0 351.0 110 5.7 3L119 Care and Maintenance Preparations: OWPF Secondary Wastes LLW LLW 0 351.0 351.0 110 5.7 3L311 Decommissioning Stage 3: Stainless Steel (Reactor) ILW ILW 0 219.1 219.1 360 18.0 3L312 Decommissioning Stage 3: Mild Steel (Reactor) ILW ILW	3L25	,	ILW	78.8	23.1	101.9	167	8.4	
3L114 Care & Maintenance: Miscellaneous Materials LLW LLW 0 96.0 96.0 22.6 1.2 3L115 Care and Maintenance Preparations: Wet Fuel Route LLW LLW 0 902.6 902.6 39.8 2.0 3L116 Care and Maintenance Preparations: Dry Fuel Route LLW LLW 0 4,574.9 4,574.9 369 18.9 3L117 Care and Maintenance Preparations: Gas Circulators LLW LLW 0 700.0 700.0 221 11.3 3L118 Care and Maintenance Preparations: DWPF Secondary Wastes LLW LLW 0 351.0 351.0 110 5.7 3L119 Care and Maintenance Preparations: OWPF Secondary Wastes LLW LLW 0 351.0 351.0 110 5.7 3L311 Decommissioning Stage 3: Stainless Steel (Reactor) ILW ILW 0 219.1 219.1 360 18.0 3L312 Decommissioning Stage 3: Mild Steel (Reactor) ILW ILW 0 209.0 209.0 343 17.1 3L313 Decommissioning Stage 3: Stainless Steel (Reactor) LLW ILW 0 2,464.7 2,464.7 3,940 19.9 <td>3L27</td> <td>Bypass Blowdown Filters (LLW)</td> <td>LLW</td> <td>5.4</td> <td>3.7</td> <td>9.1</td> <td>130</td> <td>6.5</td>	3L27	Bypass Blowdown Filters (LLW)	LLW	5.4	3.7	9.1	130	6.5	
3L114 Care & Maintenance: Miscellaneous Materials LLW LLW 0 96.0 96.0 22.6 1.2 3L115 Care and Maintenance Preparations: Wet Fuel Route LLW LLW 0 902.6 902.6 39.8 2.0 3L116 Care and Maintenance Preparations: Dry Fuel Route LLW LLW 0 4,574.9 4,574.9 369 18.9 3L117 Care and Maintenance Preparations: Gas Circulators LLW LLW 0 700.0 700.0 221 11.3 3L118 Care and Maintenance Preparations: DWPF Secondary Wastes LLW LLW 0 351.0 351.0 110 5.7 3L119 Care and Maintenance Preparations: OWPF Secondary Wastes LLW LLW 0 351.0 351.0 110 5.7 3L311 Decommissioning Stage 3: Stainless Steel (Reactor) ILW ILW 0 219.1 219.1 360 18.0 3L312 Decommissioning Stage 3: Mild Steel (Reactor) ILW ILW 0 209.0 209.0 343 17.1 3L313 Decommissioning Stage 3: Stainless Steel (Reactor) LLW ILW 0 2,464.7 2,464.7 3,940 19.9 <td>3L28</td> <td></td> <td>ILW</td> <td>0.6</td> <td>0.6</td> <td>1.2</td> <td>1.5</td> <td>2.6</td>	3L28		ILW	0.6	0.6	1.2	1.5	2.6	
3L116 Care and Maintenance Preparations: Dry Fuel Route LLW LLW 0 4,574.9 4,574.9 369 18.9 3L117 Care and Maintenance Preparations: Gas Circulators LLW LLW 0 700.0 700.0 221 11.3 3L118 Care and Maintenance Preparations: DWPF Secondary Wastes LLW LLW 0 351.0 351.0 110 5.7 3L119 Care and Maintenance Preparations: OWPF Secondary Wastes LLW LLW 0 351.0 351.0 110 5.7 3L311 Decommissioning Stage 3: Stainless Steel (Reactor) ILW ILW 0 219.1 219.1 360 18.0 3L312 Decommissioning Stage 3: Mild Steel (Reactor) ILW ILW 0 209.0 209.0 343 17.1 3L313 Decommissioning Stage 3: Graphite ILW ILW 0 2,464.7 2,464.7 3,940 197 3L314 Decommissioning Stage 3: Stainless Steel (Reactor) LLW LLW 0 1,221.0 1,221.0 387 19.9	3L114	Care & Maintenance: Miscellaneous Materials LLW	LLW	0	96.0	96.0	22.6	1.2	
3L117 Care and Maintenance Preparations: Gas Circulators LLW LLW 0 700.0 700.0 221 11.3 3L118 Care and Maintenance Preparations: DWPF Secondary Wastes LLW LLW 0 351.0 351.0 110 5.7 3L119 Care and Maintenance Preparations: OWPF Secondary Wastes LLW LLW 0 351.0 351.0 110 5.7 3L311 Decommissioning Stage 3: Stainless Steel (Reactor) ILW ILW 0 219.1 219.1 360 18.0 3L312 Decommissioning Stage 3: Mild Steel (Reactor) ILW ILW 0 209.0 209.0 343 17.1 3L313 Decommissioning Stage 3: Graphite ILW ILW 0 2,464.7 2,464.7 3,940 197 3L314 Decommissioning Stage 3: Stainless Steel (Reactor) LLW LLW 0 1,221.0 1,221.0 387 19.9	3L115	Care and Maintenance Preparations: Wet Fuel Route LLW	LLW	0	902.6	902.6	39.8	2.0	
3L118 Care and Maintenance Preparations: DWPF Secondary Wastes LLW LLW 0 351.0 351.0 110 5.7 3L119 Care and Maintenance Preparations: OWPF Secondary Wastes LLW LLW 0 351.0 351.0 110 5.7 3L311 Decommissioning Stage 3: Stainless Steel (Reactor) ILW ILW 0 219.1 219.1 360 18.0 3L312 Decommissioning Stage 3: Mild Steel (Reactor) ILW ILW 0 209.0 209.0 343 17.1 3L313 Decommissioning Stage 3: Graphite ILW ILW 0 2,464.7 2,464.7 3,940 197 3L314 Decommissioning Stage 3: Stainless Steel (Reactor) LLW LLW 0 1,221.0 1,221.0 387 19.9	3L116	Care and Maintenance Preparations: Dry Fuel Route LLW	LLW	0	4,574.9	4,574.9	369	18.9	
3L119 Care and Maintenance Preparations: OWPF Secondary Wastes LLW LLW 0 351.0 351.0 110 5.7 3L311 Decommissioning Stage 3: Stainless Steel (Reactor) ILW ILW 0 219.1 219.1 360 18.0 3L312 Decommissioning Stage 3: Mild Steel (Reactor) ILW ILW 0 209.0 209.0 343 17.1 3L313 Decommissioning Stage 3: Graphite ILW ILW 0 2,464.7 2,464.7 3,940 197 3L314 Decommissioning Stage 3: Stainless Steel (Reactor) LLW LLW 0 1,221.0 387 19.9	3L117	Care and Maintenance Preparations: Gas Circulators LLW	LLW	0	700.0	700.0	221	11.3	
3L311 Decommissioning Stage 3: Stainless Steel (Reactor) ILW ILW 0 219.1 219.1 360 18.0 3L312 Decommissioning Stage 3: Mild Steel (Reactor) ILW ILW 0 209.0 209.0 343 17.1 3L313 Decommissioning Stage 3: Graphite ILW ILW 0 2,464.7 2,464.7 3,940 197 3L314 Decommissioning Stage 3: Stainless Steel (Reactor) LLW LLW 0 1,221.0 387 19.9	3L118	Care and Maintenance Preparations: DWPF Secondary Wastes LLW	LLW	0	351.0	351.0	110	5.7	
3L312 Decommissioning Stage 3: Mild Steel (Reactor) ILW ILW 0 209.0 209.0 343 17.1 3L313 Decommissioning Stage 3: Graphite ILW ILW 0 2,464.7 2,464.7 3,940 197 3L314 Decommissioning Stage 3: Stainless Steel (Reactor) LLW LLW 0 1,221.0 1,221.0 387 19.9	3L119	Care and Maintenance Preparations: OWPF Secondary Wastes LLW	LLW	0	351.0	351.0	110	5.7	
3L313 Decommissioning Stage 3: Graphite ILW	3L311	Decommissioning Stage 3: Stainless Steel (Reactor) ILW	ILW	0	219.1	219.1	360	18.0	
3L314 Decommissioning Stage 3: Stainless Steel (Reactor) LLW LLW 0 1,221.0 387 19.9	3L312	Decommissioning Stage 3: Mild Steel (Reactor) ILW	ILW	0	209.0	209.0	343	17.1	
3L314 Decommissioning Stage 3: Stainless Steel (Reactor) LLW ULW 0 1,221.0 1,221.0 387 19.9	3L313	Decommissioning Stage 3: Graphite ILW	ILW	0	2,464.7	2,464.7	3,940	197	
	3L314	- · · · · · · · · · · · · · · · · · · ·	LLW	0				19.9	
	3L315		LLW	0			452	23.2	

Site Owner - Waste Custodian - Site		Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
3L317	Decommissioning Stage 3: Graphite LLW	LLW	0	453.0	453.0	604	30.2	
3L318	Stage 3 Decommissioning: Concrete (Reactor and Non-Reactor) LLW	LLW	0	1,600.4	1,600.4	1,710	87.6	
3L319	Stage 3 Decommissioning: Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	151.9	151.9	253	13.0	
3L320	Stage 3 Decommissioning: Secondary Wastes LLW	LLW	0	1,925.3	1,925.3	566	29.0	
EDFE NGL - E	DFE NGL - Heysham 2							
3M01	Pond Ion Exchange Material	ILW	2.5	0.8	3.3	9.5	16.6	
3M02	Pond Water Filter Sludge	ILW	12.0	0.5	12.5	21.6	37.9	
3M03	Miscellaneous Contaminated Items	ILW	7.6	6.2	13.8	34.3	60.0	
3M04	Desiccant	ILW	0	80.0	80.0	0	0	
3M08	Active Effluent Ion Exchange Material	ILW	3.9	2.5	6.4	18.3	32.0	
3M09	Active Effluent Filters Sludge	LLW	2.8	7.2	10.0	18.8	1.0	
3M10	Oily Sludge	LLW	4.2	2.0	6.2	11.7	0.6	
3M13	Wet Fuel Route LLW	LLW	1.5	333.2	334.7	42.9	2.2	
3M14	Gas Circulator Maintenance LLW	LLW	5.5	90.0	95.5	12.3	0.6	
3M15	Waste Sorting LLW	LLW	10.5	19.9	30.4	3.9	0.2	
3M17	Catalysts	ILW	0	13.0	13.0	41.6	2.1	
3M19	Reactors and Dry Fuel Route LLW	LLW	8.0	344.3	352.3	52.7	2.7	
3M20	Miscellaneous Sludges LLW	LLW	4.6	4.5	9.1	9.7	0.5	
3M22	Miscellaneous Activated Components & Fuel Stringer Debris	ILW	200.2	108.0	308.2	506	25.3	
3M23	Wet (Pond) Carbonaceous Debris	ILW	1.0	1.0	2.0	2.5	4.3	
3M114	Care & Maintenance: Miscellaneous Materials LLW	LLW	0	105.3	105.3	24.7	1.3	
3M115	Care and Maintenance Preparations: Wet Fuel Route - LLW	LLW	0	1,937.7	1,937.7	79.7	4.1	
3M116	Care and Maintenance Preparations: Reactors and Dry Fuel Route - LLW	LLW	0	2,291.3	2,291.3	289	14.8	
3M117	Care and Maintenance Preparations: Gas Circulator Maintenance - LLW	LLW	0	1,160.0	1,160.0	337	17.3	
3M118	Care and Maintenance Preparations: DWPF Secondary Wastes LLW	LLW	0	515.0	515.0	161	8.3	
3M119	Care and Maintenance Preparations: OWPF Secondary Wastes LLW	LLW	0	515.0	515.0	161	8.3	
3M311	Decommissioning stage 3: Stainless Steel (Reactor) ILW	ILW	0	141.0	141.0	231	11.6	

Site Owner	Site Owner - Waste Custodian - Site		Reported v	olume (m³)		When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
3M312	Decommissioning Stage 3: Mild Steel (Reactor) ILW	ILW	0	583.0	583.0	957	47.8	
3M313	Decommissioning Stage 3: Graphite ILW	ILW	0	2,131.0	2,131.0	3,520	176	
3M314	Decommissioning Stage 3: Stainless Steel (Reactor) LLW	LLW	0	1,120.0	1,120.0	355	18.2	
3M315	Decommissioning Stage 3: Mild Steel (Reactor) LLW	LLW	0	3,278.0	3,278.0	1,040	53.3	
3M317	Decommissioning Stage 3: Graphite LLW	LLW	0	654.0	654.0	872	43.6	
3M318	Stage 3 decommissioning: Concrete (Reactor and Non-Reactor) LLW	LLW	0	2,788.7	2,788.7	2,980	153	
3M319	Stage 3 Decommissioning: Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	598.9	598.9	997	51.1	
3M320	Stage 3 Decommissioning: Secondary Wastes LLW	LLW	0	1,964.6	1,964.6	578	29.6	
EDFE NGL -	EDFE NGL - Hinkley Point B							
3N01	Ion Exchange Material	ILW	8.5	1.2	9.7	27.7	48.5	
3N02	Sludge	ILW	23.0	1.8	24.8	42.9	75.2	
3N04	Desiccants and Catalysts	ILW/	203.5	28.8	232.3	724	37.1	
3N12	Gas Circulator LLW	LLW	36.0	54.0	90.0	6.2	0.3	
3N13	Wet Fuel Route LLW	/ LLW	20.0	254.5	274.5	35.2	1.8	
3N14	General Reactor LLW	LLW	38.0	498.0	536.0	68.8	3.5	
3N35	Miscellaneous Sludges	LLW	5.0	1.5	6.5	6.9	0.4	
3N37	Miscellaneous Contaminated Items	ILW	0	4.1	4.1	10.0	17.4	
3N38	Miscellaneous Activated Components & Fuel Stringer Debris - Debris Vault 1	ILW	603.0	60.3	663.3	1,090	54.4	
3N39	Miscellaneous Activated Components & Fuel Stringer Debris - Debris Vault 2	ILW	35.6	9.9	45.5	74.7	3.7	
3N40	Miscellaneous Activated Components - Debris Vault 3	ILW	4.5	0	4.5	7.4	0.4	
3N41	Miscellaneous Activated Components - Debris Vault 4	ILW	4.7	1.0	5.7	9.4	0.5	
3N42	Gas Driers/Gas Bypass area LLW	LLW	2.0	8.1	10.1	1.3	0.1	
3N43	Combustible Radioactive Waste Disposal (CRAWD) LLW	LLW	5.4	24.2	29.6	3.8	0.2	
3N44	Wet (Pond) Carbonaceous Debris	ILW	1.0	0.5	1.5	1.8	3.2	
3N114	Care & Maintenance Preparations: Secondary Waste LLW	LLW	0	99.3	99.3	23.3	1.2	
3N115	Care and Maintenance Preparations: Wet Fuel Route LLW	LLW	0	611.9	611.9	35.2	1.8	
3N116	Care and Maintenance Preparations: General Reactor LLW	LLW	0	1,717.3	1,717.3	269	13.8	

Site Owner	Site Owner - Waste Custodian - Site		Reported v	olume (m³)		When wastes a future arisings	nt 1.4.2022 and are packaged
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾
3N117	Care and Maintenance Preparations: Gas Circulator LLW	LLW	0	1,063.0	1,063.0	255	13.1
3N118	Care and Maintenance Preparations: DWPF Secondary Wastes LLW	LLW	0	504.0	504.0	125	6.4
3N119	Care and Maintenance Preparations: OWPF Secondary Wastes LLW	LLW	0	504.0	504.0	125	6.4
3N311	Decommissioning Stage 3: Stainless Steel (Reactor) ILW	ILW	0	194.3	194.3	319	15.9
3N312	Decommissioning Stage 3: Mild Steel (Reactor) ILW	ILW	0	591.3	591.3	971	48.5
3N313	Decommissioning Stage 3: Graphite ILW	ILW	0	1,830.5	1,830.5	3,260	163
3N314	Decommissioning Stage 3: Stainless Steel (Reactor) LLW	LLW	0	1,269.6	1,269.6	403	20.7
3N315	Decommissioning Stage 3: Mild Steel (Reactor) LLW	LLW	0	2,406.4	2,406.4	764	39.2
3N317	Decommissioning Stage 3: Graphite LLW	LLW	0	466.6	466.6	622	31.1
3N318	Stage 3 Decommissioning: Concrete (Reactor and Non-Reactor) LLW	LLW	0	1,020.0	1,020.0	1,090	55.8
3N319	Stage 3 Decommissioning: Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	1,148.7	1,148.7	1,910	98.1
3N320	Stage 3 Decommissioning: Secondary Wastes LLW	LLW	0	1,610.7	1,610.7	474	24.3
	EDFE NGL - Sizewell B			·	·		
3S03	Spent Cartridge Filters (ILW)	ILW	3.5	3.2	6.7	161	266
3S04	Sludges and Concentrates	LLW	0	3.0	3.0	0	0
3S05	Miscellaneous Contaminated Items	ILW	20.4	49.3	69.7	169	297
3S06	Spent Resins (LLW)	LLW	25.8	85.0	110.8	432	22.2
3S07	Station Maintenance and Operations LLW	LLW	120.1	870.0	990.1	84.5	4.3
3S08	Secondary Cartridge Filters (LLW)	LLW	2.8	21.8	24.6	24.0	1.2
3S09	Miscellaneous Activated Components	ILW	10.3	29.6	39.9	65.5	3.3
3S12	CVCS Resins and Spent Resins (ILW)	ILW	13.8	-13.8	0	0	0
3S12/C	CVCS Resins and Spent Resins (ILW) - Conditioned waste	ILW	27.0	65.5	92.5	272	206
3S101	Decommissioning: Station Maintenance LLW	LLW	0	269.5	269.5	58.7	3.0
3S301	Decommissioning: Mild Steel LLW	LLW	0	1,802.0	1,802.0	67.9	3.5
3S302	Decommissioning: Mild Steel ILW	ILW	0	214.5	214.5	499	24.9
3S303	Decommissioning: Concrete LLW	LLW	0	235.5	235.5	696	35.7
3S304	Decommissioning: Secondary Wastes & Miscellaneous Materials LLW	LLW	0	1,954.4	1,954.4	324	16.6
3S305	Decommissioning: Stainless Steel LLW	LLW	0	7,501.0	7,501.0	78.0	4.0
3S306	Decommissioning: Stainless Steel ILW	ILW	0	198.2	198.2	323	83.0

Site Owner	- Waste Custodian - Site	Waste	Reported v	olume (m³)		When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
3S308	SZB Dry Store - Shield & Transfer Casks	LLW	0	8,425.3	8,425.3	8,990	461	
3S309	Dry Store - MPC Fuel casks	LLW	0	1,604.0	1,604.0	1,710	87.8	
3S310	Fuel Pond Solid Absorber Assemblies	ILW	0	31.2	31.2	64.0	3.3	
NNB GenCo	(HPC) Ltd - NNB GenCo (HPC) Ltd - Hinkley Point C							
3T01	ILW Ion Exchange Resins	ILW	0	360.0	360.0	1,800	900	
3T02	ILW Cartridge Filters	ILW	0	600.0	600.0	1,490	2,610	
3T03	ILW Sludges	ILW	0	120.0	120.0	489	857	
3T04	ILW Operational Wastes	ILW	0	120.0	120.0	381	667	
3T05	LLW Steam Generator Blowdown Ion Exchange Resin	LLW	0	900.0	900.0	900	0	
3T06	LLW Sludges	LLW	0	60.0	60.0	488	25.0	
3T07	LLW Evaporator Concentrates	LLW	0	360.0	360.0	2,420	124	
3T08	LLW Cartridge Filters ⁽⁴⁾	LLW	0	6.0	6.0	28.4	1.5	
3T09	LLW Air and Water Filters	LLW	0	480.0	480.0	256	13.1	
3T10	LLW Dry Active Wastes	LLW	0	6,000.0	6,000.0	4,170	208	
3T11	LLW Oils and Solvents	LLW	0	240.0	240.0	0	0	
3T12	LLW Metallic Waste	LLW	0	720.0	720.0	0	0	
EDFE NGL -	EDFE NGL - Flasks & Flatrols							
3Z202	AGR Fuel Transport Flasks	LLW	0	387.6	387.6	37.8	1.9	
EDFE NGL -	EDFE NGL - Hunterston B							
4B01	Ion Exchange Resin and Sand	ILW	22.0	5.1	27.1	77.4	136	
4B04	Sludge	ILW	43.5	3.5	47.0	112	196	
4B06	Desiccants and Catalysts	ILW	260.0	34.0	294.0	916	47.0	
4B12	Wet Fuel Route LLW	LLW	3.0	260.4	263.4	33.8	1.7	
4B13	General Reactor LLW	LLW	48.2	707.3	755.5	96.9	5.0	
4B14	Laundry LLW	LLW	16.2	75.0	91.2	10.5	0.5	
4B15	Miscellaneous Sludges	LLW	0	1.5	1.5	0	0	
4B17	Miscellaneous Contaminated Items	ILW	4.0	4.0	8.0	19.4	34.0	
4B18	Miscellaneous Activated Components - Debris Vault 1	ILW	545.6	76.4	622.0	1,020	51.0	
4B19	Miscellaneous Activated Components - Debris Vault 2	ILW	124.6	7.4	132.0	217	10.8	
4B20	Miscellaneous Activated Components - Debris Vault 3	ILW	9.1	0	9.1	15.0	0.7	

Site Owner - Waste Custodian - Site		Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
4B21	Miscellaneous Activated Components - Debris Vault 4	ILW	0.4	0.7	1.1	1.8	0.1	
4B22	Wet (Pond) Carbonaceous Debris	ILW	1.0	0.4	1.4	1.7	3.0	
4B114	Care & Maintenance: Miscellaneous Materials LLW	LLW	0	99.3	99.3	23.3	1.2	
4B115	Care & Maintenance Preparations: Ponds and Active Effluent Treatment Plant LLW	LLW	0	605.4	605.4	30.5	1.6	
4B116	Care and Maintenance Preparations: General Reactor LLW	LLW	0	1,756.9	1,756.9	261	13.4	
4B117	Care and Maintenance Preparations: Laundry LLW	LLW	0	945.0	945.0	262	13.4	
4B118	Care & Maintenance Preparations: DWPF Secondary Wastes LLW	LLW	0	416.0	416.0	131	6.7	
4B119	Care & Maintenance Preparations: OWPF Secondary Wastes LLW	LLW	0	416.0	416.0	131	6.7	
4B311	Decommissioning Stage 3: Stainless Steel (Reactor) ILW	ILW	0	194.3	194.3	319	15.9	
4B312	Decommissioning Stage 3: Mild Steel (Reactor) ILW	ILW	0	591.3	591.3	971	48.5	
4B313	Decommissioning Stage 3: Graphite ILW	ILW	0	1,830.5	1,830.5	3,260	163	
4B314	Decommissioning Stage 3: Stainless Steel (Reactor) LLW	LLW	0	1,269.7	1,269.7	403	20.7	
4B315	Decommissioning Stage 3: Mild Steel (Reactor) LLW	LLW	0	2,406.3	2,406.3	763	39.2	
4B317	Decommissioning Stage 3: Graphite LLW	LLW	0	466.5	466.5	622	31.1	
4B318	Stage 3 Decommissioning: Concrete (Reactor and Non-Reactor) LLW	LLW	0	1,020.0	1,020.0	1,090	55.8	
4B319	Stage 3 Decommissioning: Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	1,049.8	1,049.8	1,750	89.6	
4B320	Stage 3 Decommissioning: Secondary Wastes LLW	LLW	0	1,945.4	1,945.4	572	29.4	
EDFE NGL - I	EDFE NGL - Torness							
4C01	Catalyst	ILW	0	9.4	9.4	30.1	1.5	
4C02	Desiccant	ILW	31.6	37.0	68.6	0	0	
4C03	Pond Water Filtration Resin	ILW	6.4	3.7	10.1	28.8	50.5	
4C06	Active Effluent Filtration Resin	ILW	2.3	1.2	3.5	10.0	17.5	
4C12	Miscellaneous Activated Components & Fuel Stringer Debris	ILW	162.4	82.0	244.4	401	20.0	
4C13	Active Effluent and Workshop LLW	LLW	9.6	374.1	383.7	49.2	2.5	
4C16	Dry Fuel Route LLW	LLW	18.3	275.0	293.3	37.6	1.9	
4C17	Wet Fuel Route LLW	LLW	3.1	352.1	355.2	45.6	2.3	
4C18	Active Effluent Filtration Sludge	LLW	3.4	7.2	10.6	19.9	1.0	
4C19	Pond Water Filtration Sludge	ILW	2.3	0.5	2.8	4.8	8.5	

Site Owner -	Waste Custodian - Site	Waste	Reported v	olume (m³)		When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
4C20	Oily Sludge	LLW	0.2	0.1	0.3	0.6	<0.1	
4C23	Miscellaneous Contaminated Items	ILW	20.6	7.3	27.9	67.8	119	
4C24	Gas Bypass Area Waste - LLW	LLW	0	40.0	40.0	2.0	0.1	
4C25	Wet (Pond) Carbonaceous Debris	ILW	1.0	1.0	2.0	2.5	4.3	
4C114	Care & Maintenance: Miscellaneous Materials LLW	LLW	0	96.0	96.0	22.6	1.2	
4C115	Care and Maintenance Preparations: Wet Fuel Route LLW	LLW	0	902.1	902.1	44.3	2.3	
4C116	Care and Maintenance Preparations: Dry Fuel Route LLW	LLW	0	2,509.1	2,509.1	313	16.1	
4C117	Care and Maintenance Preparations: Active Effluent and Workshop LLW	LLW	0	2,288.0	2,288.0	404	20.7	
4C118	Care and Maintenance Preparations: DWPF Secondary Wastes LLW	LLW	0	574.0	574.0	179	9.2	
4C119	Care and Maintenance Preparations: OWPF Secondary Wastes LLW	LLW	0	574.0	574.0	179	9.2	
4C311	Decommissioning stage 3: Stainless Steel (Reactor) ILW	ILW	0	141.1	141.1	232	11.6	
4C312	Decommissioning Stage 3: Mild Steel (Reactor) ILW	ILW	0	530.9	530.9	871	43.5	
4C313	Decommissioning Stage 3: Graphite ILW	JĿW	0	2,131.0	2,131.0	3,520	176	
4C314	Decommissioning Stage 3: Stainless Steel (Reactor) LLW	LLW	0	1,120.0	1,120.0	355	18.2	
4C315	Decommissioning Stage 3: Mild Steel (Reactor) LLW	LLW	0	3,278.0	3,278.0	1,040	53.3	
4C317	Decommissioning Stage 3: Graphite LLW	LLW	0	654.0	654.0	872	43.6	
4C318	Stage 3 decommissioning: Concrete (Reactor and Non-Reactor) LLW	LLW	0	2,788.8	2,788.8	2,980	153	
4C319	Stage 3 Decommissioning: Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	595.6	595.6	992	50.9	
4C320	Stage 3 Decommissioning: Secondary Wastes LLW	LLW	0	2,018.6	2,018.6	594	30.5	
Nuclear Dec	ommissioning Authority - Dounreay Site Restoration Ltd - Dounreay							
5B01	PFR Raffinate	ILW	166.2	-166.2	0	0	0	
5B01/C	Cemented PFR Raffinate	ILW	62.5	364.5	427.0	488	854	
5B02	Low Alpha RHILW	ILW	0	480.1	480.1	501	878	
5B03	Operational RHILW	ILW	142.4	0	142.4	271	475	
5B04/C	Cemented MTR Raffinate	ILW	2,432.0	0	2,432.0	2,780	4,860	
5B05/C	Cemented DFR Raffinate	ILW	439.0	0	439.0	501	878	
5B15	Compacted LLW	LLW	9,232.7	0	9,232.7	3,600	185	
5B16	Bulk Operational LLW	LLW	3,104.2	0	3,104.2	4,630	237	

Interesting Interest Intere	Site Owner - Waste Custodian - Site		Owner - Waste Custodian - Site Waste				When wastes at 1.4.2022 and future arisings are packaged		
B20	Stream Identifier	Title	type			Total		Number of packages ⁽¹⁾	
B22	5B19	Uranium Contaminated Materials	ILW	63.4	0	63.4	36.2	63.4	
B24 Operational CHILW ILW 769.8 0 769.8 440 770 B25 ILW Shaft (Contents) ILW 0 738.9 738.9 845 1,480 B26 LLLETP Sludge LLW 16.0 15.9 31.9 80.0 4.1 B27 Thorium Nitrate ILW 25.5 0 25.5 66.1 38.2 B28 Graphite/THTR Waste ILW 88.6 0 88.6 253 443 B29 LSA Scale LLW 25.5 0 235.0 235 0 B32 Irradiated Thorium Fuel Pin Pieces ILW 25.0 0 235.0 235 0 B33 PFR Mixer Breeder Sections ILW 5.4 0.2 5.6 16.1 28.1 B34 DFR Breeder Sections ILW 5.4 0.2 5.6 16.1 28.1 B34 DFR Breeder Fuel Removal Waste ILW 14.0 3.7 17.7 37.5 65.7 B301 Prototype Fast Reactor ILW ILW 0 3,592.6 3,592.6 6,900 354 B302 Prototype Fast Reactor ILW ILW 11.8 205.4 217.2 871 459 B303 Dounreay Fast Reactor ILW ILW 0 3,069.0 3,069.0 5,910 303 B304 Dounreay Fast Reactor ILW ILW 0 255.4 255.4 877 74.0 B305 Site Drains and Ducts ILW ILW 0 135.7 135.7 340 17.4 B306 Site Drains and Ducts ILW ILW 0 7.4 7.4 18.8 32.8 B307 PFR Reprocessing Plant ILW ILW 0 1,755.2 1,660 85.0 B308 PFR Reprocessing Plant ILW ILW 0 408.9 408.9 835 42.8 B310 Materials Test Reactor ILW ILW 0 408.9 408.9 835 42.8 B311 Development Laboratory ILW ILW 0 589.2 589.2 402 20.6 B312 Development Laboratory ILW ILW 0 815.0 810.0 810.0 B313 HAL Store and Evaporation Plant ILW ILW 0 815.0 815.0 878 45.0 B314 HAL Store and Evaporation Plant ILW ILW 0 815.0 815.0 878 45.0 B315 MTR Reprocessing Plant ILW ILW 0 815.0 815.0 878 45.0 B316 MTR Reprocessing Plant ILW ILW 0 815.0 815.0 878 45.0 B317 Pu Laboratory ILW ILW 0 815.0 815.0 878 45.0 B318 MTR Reprocessing Plant ILW ILW 0 815.0 815.0 80.0 B317 Pu Laboratory ILW ILW 0 815.0	5B20	Contaminated Solvent and Oils	LLW	0	63.9	63.9	117	6.0	
ILW Shaft (Contents) ILW 0 738.9 738.9 845 1,480	5B22	ADU Floc	ILW	128.0	16.0	144.0	343	600	
B26 LLLETP Sludge	5B24	Operational CHILW	ILW	769.8	0	769.8	440	770	
B27 Thorium Nitrate ILW 25.5 0 25.5 66.1 38.2	5B25	ILW Shaft (Contents)	ILW	0	738.9	738.9	845	1,480	
B28 Graphite/THTR Waste ILW 88.6 0 88.6 253 443 B29 LSA Scale LLW 235.0 0 235.0 235.0 0 B32 Irradiated Thorium Fuel Pin Pieces ILW 40.1 0 <0.1	5B26	LLLETP Sludge	LLW	16.0	15.9	31.9	80.0	4.1	
LLW 235.0 0 235.0 235 0 235.0 235 0 235.0 235 0 235.0 235 0 235.0 235 0 235.0 235 0 235.0 235 0 235.0 235 0 235.0 235 0 235.0 235 0 235.0 235 0 235.0 235 23	5B27	Thorium Nitrate	ILW	25.5	0	25.5	66.1	38.2	
ILW Co.1 0 Co.1 3.3 5.7	5B28	Graphite/THTR Waste	ILW	88.6	0	88.6	253	443	
B33 PFR Mixer Breeder Sections ILW 5.4 0.2 5.6 16.1 28.1	5B29	LSA Scale	LLW	235.0	0	235.0	235	0	
B34 DFR Breeder Fuel Removal Waste ILW 14.0 3.7 17.7 37.5 65.7	5B32	Irradiated Thorium Fuel Pin Pieces	ILW	<0.1	0	<0.1	3.3	5.7	
Barrow Prototype Fast Reactor LLW LLW 0 3,592.6 3,592.6 6,900 354	5B33	PFR Mixer Breeder Sections	ILW	5.4	0.2	5.6	16.1	28.1	
B302 Prototype Fast Reactor ILW ILW 11.8 205.4 217.2 871 459	5B34	DFR Breeder Fuel Removal Waste	ILW	14.0	3.7	17.7	37.5	65.7	
Basin	5B301	Prototype Fast Reactor LLW	LLW	0	3,592.6	3,592.6	6,900	354	
B304 Dounreay Fast Reactor ILW ILW 0 255.4 255.4 877 74.0 B305 Site Drains and Ducts LLW LLW 0 135.7 135.7 340 17.4 B306 Site Drains and Ducts ILW ILW 0 7.4 7.4 18.8 32.8 B307 PFR Reprocessing Plant LLW LLW 0 1,755.2 1,755.2 1,660 85.0 B308 PFR Reprocessing Plant ILW ILW 26.6 105.4 132.0 265 465 B309 Materials Test Reactor LLW LLW 0 408.9 408.9 835 42.8 B310 Materials Test Reactor ILW ILW 0 8.5 8.5 27.1 2.2 B311 Development Laboratory LLW LLW 0 589.2 589.2 402 20.6 B312 Development Laboratory ILW ILW 80.3 2.8 83.1 59.5 104 B313 HAL Store and Evaporation Plant LLW LLW 0 812.0 812.0 990 50.8 B314 HAL Store and Evaporation Plant LLW ILW 2.1 165.6 167.7 646 60.1 B315 MTR Reprocessing Plant LLW LLW 0 815.0 878 45.0 B317 Pu Laboratory ILW ILW 18.2 0 18.2 10.4 18.2 B323 Decommissioning Contaminated Soil LLW 0 15,750.0 39,500 2,020	5B302	Prototype Fast Reactor ILW	ILW	11.8	205.4	217.2	871	459	
Site Drains and Ducts LLW	5B303	Dounreay Fast Reactor LLW	/ LLW	0	3,069.0	3,069.0	5,910	303	
Site Drains and Ducts ILW ILW 0 7.4 7.4 18.8 32.8	5B304	Dounreay Fast Reactor ILW	ILW	0	255.4	255.4	877	74.0	
B307 PFR Reprocessing Plant LLW D 1,755.2 1,755.2 1,660 85.0	5B305	Site Drains and Ducts LLW	LLW	0	135.7	135.7	340	17.4	
B308 PFR Reprocessing Plant ILW ILW 26.6 105.4 132.0 265 465 B309 Materials Test Reactor LLW ILW 0 408.9 408.9 835 42.8 B310 Materials Test Reactor ILW ILW 0 8.5 8.5 27.1 2.2 B311 Development Laboratory LLW ILW 0 589.2 589.2 402 20.6 B312 Development Laboratory ILW ILW 80.3 2.8 83.1 59.5 104 B313 HAL Store and Evaporation Plant LLW ILW 0 812.0 812.0 990 50.8 B314 HAL Store and Evaporation Plant ILW ILW 2.1 165.6 167.7 646 60.1 B315 MTR Reprocessing Plant LLW ILW 0 815.0 878 45.0 B317 Pu Laboratory ILW ILW 18.2 0 18.2 10.4 18.2 B323 Decommissioning Contaminated Soil ILW 0 15,750.0 39,500 2,020	5B306	Site Drains and Ducts ILW	ILW	0	7.4	7.4	18.8	32.8	
B309 Materials Test Reactor LLW LLW 0 408.9 408.9 835 42.8 B310 Materials Test Reactor ILW ILW 0 8.5 8.5 27.1 2.2 B311 Development Laboratory LLW LLW 0 589.2 589.2 402 20.6 B312 Development Laboratory ILW ILW 80.3 2.8 83.1 59.5 104 B313 HAL Store and Evaporation Plant LLW LLW 0 812.0 812.0 990 50.8 B314 HAL Store and Evaporation Plant ILW ILW 2.1 165.6 167.7 646 60.1 B315 MTR Reprocessing Plant LLW LLW 0 815.0 878 45.0 B317 Pu Laboratory ILW ILW 18.2 0 18.2 10.4 18.2 B323 Decommissioning Contaminated Soil LLW 0 15,750.0 39,500 2,020	5B307	PFR Reprocessing Plant LLW	LLW	0	1,755.2	1,755.2	1,660	85.0	
B310 Materials Test Reactor ILW ILW 0 8.5 8.5 27.1 2.2 B311 Development Laboratory LLW LLW 0 589.2 589.2 402 20.6 B312 Development Laboratory ILW ILW 80.3 2.8 83.1 59.5 104 B313 HAL Store and Evaporation Plant LLW LLW 0 812.0 812.0 990 50.8 B314 HAL Store and Evaporation Plant ILW ILW 2.1 165.6 167.7 646 60.1 B315 MTR Reprocessing Plant LLW LLW 0 815.0 878 45.0 B317 Pu Laboratory ILW ILW 18.2 0 18.2 10.4 18.2 B323 Decommissioning Contaminated Soil LLW 0 15,750.0 39,500 2,020	5B308	PFR Reprocessing Plant ILW	ILW	26.6	105.4	132.0	265	465	
B311 Development Laboratory LLW LLW 0 589.2 589.2 402 20.6 B312 Development Laboratory ILW ILW 80.3 2.8 83.1 59.5 104 B313 HAL Store and Evaporation Plant LLW LLW 0 812.0 812.0 990 50.8 B314 HAL Store and Evaporation Plant ILW ILW 2.1 165.6 167.7 646 60.1 B315 MTR Reprocessing Plant LLW LLW 0 815.0 878 45.0 B317 Pu Laboratory ILW ILW 18.2 0 18.2 10.4 18.2 B323 Decommissioning Contaminated Soil LLW 0 15,750.0 15,750.0 39,500 2,020	5B309	Materials Test Reactor LLW	LLW	0	408.9	408.9	835	42.8	
B312 Development Laboratory ILW ILW 80.3 2.8 83.1 59.5 104 B313 HAL Store and Evaporation Plant LLW 0 812.0 990 50.8 B314 HAL Store and Evaporation Plant ILW ILW 2.1 165.6 167.7 646 60.1 B315 MTR Reprocessing Plant LLW LLW 0 815.0 878 45.0 B317 Pu Laboratory ILW ILW 18.2 0 18.2 10.4 18.2 B323 Decommissioning Contaminated Soil LLW 0 15,750.0 39,500 2,020	5B310	Materials Test Reactor ILW	ILW	0	8.5	8.5	27.1	2.2	
B313 HAL Store and Evaporation Plant LLW LLW 0 812.0 812.0 990 50.8 B314 HAL Store and Evaporation Plant ILW ILW 2.1 165.6 167.7 646 60.1 B315 MTR Reprocessing Plant LLW LLW 0 815.0 878 45.0 B317 Pu Laboratory ILW ILW 18.2 0 18.2 10.4 18.2 B323 Decommissioning Contaminated Soil LLW 0 15,750.0 39,500 2,020	5B311	Development Laboratory LLW	LLW	0	589.2	589.2	402	20.6	
B314 HAL Store and Evaporation Plant ILW ILW 2.1 165.6 167.7 646 60.1 B315 MTR Reprocessing Plant LLW LLW 0 815.0 815.0 878 45.0 B317 Pu Laboratory ILW ILW 18.2 0 18.2 10.4 18.2 B323 Decommissioning Contaminated Soil LLW 0 15,750.0 15,750.0 39,500 2,020	5B312	Development Laboratory ILW	ILW	80.3	2.8	83.1	59.5	104	
B315 MTR Reprocessing Plant LLW LLW 0 815.0 878 45.0 B317 Pu Laboratory ILW ILW 18.2 0 18.2 10.4 18.2 B323 Decommissioning Contaminated Soil LLW 0 15,750.0 15,750.0 39,500 2,020	5B313	HAL Store and Evaporation Plant LLW	LLW	0	812.0	812.0	990	50.8	
B317 Pu Laboratory ILW 18.2 0 18.2 10.4 18.2 B323 Decommissioning Contaminated Soil LLW 0 15,750.0 15,750.0 39,500 2,020	5B314	HAL Store and Evaporation Plant ILW	ILW	2.1	165.6	167.7	646	60.1	
B323 Decommissioning Contaminated Soil LLW 0 15,750.0 15,750.0 39,500 2,020	5B315	MTR Reprocessing Plant LLW	LLW	0	815.0	815.0	878	45.0	
<u> </u>	5B317	Pu Laboratory ILW	ILW	18.2	0	18.2	10.4	18.2	
B325 DFR Ion Exchange Columns ILW 1.6 0.4 2.0 3.8 6.7	5B323	Decommissioning Contaminated Soil	LLW	0	15,750.0	15,750.0	39,500	2,020	
	5B325	DFR Ion Exchange Columns	ILW	1.6	0.4	2.0	3.8	6.7	

Site Owner - Waste Custodian - Site		Waste	Reported v	olume (m³)		When wastes a future arisings	
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾
5B326	MTR Reprocessing Plant ILW	ILW	2.2	70.5	72.7	172	301
5B329	CHILW Retrievable Drum Store LLW	LLW	0	7.7	7.7	7.7	0.4
5B330	CHILW Retrievable Drum Store ILW	ILW	0	0.8	0.8	0.4	0.8
5B332	RHILW Retrievable Drum Store ILW	ILW	8.8	0	8.8	16.2	28.4
5B333	DCP Vault Store and Extension LLW	LLW	0	1,811.4	1,811.4	1,870	95.9
5B334	DCP, Vault Store and Extension ILW	ILW	9.2	45.3	54.5	148	259
5B335	Analytical Laboratories LLW	LLW	0	1,094.9	1,094.9	1,810	92.9
5B336	Analytical Laboratories ILW	ILW	24.4	35.5	59.9	70.0	123
5B338	Decontamination and Waste Services ILW	ILW	12.4	0	12.4	7.1	12.4
5B339	PIE Facility LLW	LLW	0	1,046.1	1,046.1	1,570	80.5
5B340	PIE Facility ILW	ILW	61.9	0.6	62.5	97.9	171
5B341	Pu Fuels Examination Facility LLW	LLW	0	786.8	786.8	767	39.3
5B342	Pu Fuels Examination Facility ILW	ILW/	63.4	43.1	106.5	242	423
5B343	Other Facilities Decommissioning LLW	LLW	0	1,028.3	1,028.3	2,490	128
5B344	Other Facilities Decommissioning ILW	/ILW	12.0	17.0	29.0	61.5	108
5B345	Service Corridor and Tank Farm LLW	LLW	0	278.9	278.9	629	32.2
5B348	Effluent Treatment Plant LLW	LLW	0	1,304.9	1,304.9	2,540	130
5B349	Uranium Recovery Plant LLW	LLW	0	1,385.7	1,385.7	2,760	141
5B350	Uranium Recovery Plant ILW	ILW	6.0	0.2	6.2	3.6	6.3
5B351	Changerooms LLW	LLW	0	38.3	38.3	76.2	3.9
5B352	Waste Receipt, Assay, Characterisation and Supercompaction Facility LLW	LLW	0	88.7	88.7	108	5.5
5B353	Active Laundry	LLW	0	91.4	91.4	59.4	3.0
5B354	PFR SDP Ion Exchange Columns	ILW	3.8	0.4	4.2	12.0	21.1
5B355	Demolition LLW	LLW	2,198.0	13,639.8	15,837.8	15,800	0
5B356	PFR Absorbers	ILW	0	2.9	2.9	13.8	24.3
5B357	DFR Pond Ion Exchange Columns	ILW	1.2	0.2	1.4	2.7	4.7
5B358	Previously Disposed LLW to be Retrieved	LLW	0	36,890.0	36,890.0	71,900	3,690
5B359	Contaminated Soil ILW	ILW	0	101.6	101.6	321	27.1
5B360	Contaminated Oils and Solvents ILW	ILW	162.0	13.6	175.6	392	686

Site Owner - Waste Custodian - Site		Waste	Reported volume (m³) Waste			When wastes at 1.4.2022 and future arisings are packaged	
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾
5B363	Effluent Treatment Plant ILW	ILW	0	3.0	3.0	7.0	12.2
5B364/C	Decommissioning LLW Conditioned Supercompacted	LLW	1,423.5	0	1,423.5	1,420	73.0
5B365/C	Decommissioning LLW Conditioned Bulk	LLW	663.0	0	663.0	663	34.0
5B366/C	Decommissioning LLW Conditioned Mixed (Supercompacted + Bulk)	LLW	3,607.5	0	3,607.5	3,610	185
Nuclear Dec	ommissioning Authority - Magnox Ltd - Harwell						
5C08	ILW Concrete Lined Drums	ILW	434.4	0	434.4	532	932
5C18/C	Encapsulated ILW Liquors	ILW	16.4	0	16.4	23.4	41.0
5C30	Harwell Remote Handled ILW	ILW	40.1	0	40.1	57.3	100
5C39	Solid Waste Complex Operational LLW	LLW	21.2	690.5	711.7	195	3.7
5C41	Operational LLW Sludge	LLW	9.0	0	9.0	48.8	2.5
5C45	GLEEP Fuel	ILW	0.6	0	0.6	10.8	19.0
5C45/C	Encapsulated GLEEP Fuel	ILW	15.2	0	15.2	21.7	38.0
5C46	Uranic Residues	ILW	8.1	0	8.1	0	0
5C47	Organic Wastes	LĽW	2.6	1.4	4.0	0	0
5C50	Dragon Fuel	ILW	2.6	0	2.6	109	191
5C52	Processed Remote Handled ILW	ILW	219.2	0	219.2	313	548
5C52/C	Encapsulated Processed Remote Handled ILW	ILW	11.2	0	11.2	16.0	28.0
5C55	Miscellaneous Legacy LLW	LLW	141.0	0	141.0	275	14.1
5C56	Harwell LLW Sources	LLW	2.0	0	2.0	2.5	0.1
5C300	Land Remediation VLLW and LA-LLW	VLLW	868.8	7,822.7	8,691.4	3,820	0
5C301	BEPO Reactor Decommissioning LLW	LLW	23.0	162.0	185.0	148	7.6
5C302	BEPO Reactor Decommissioning ILW	ILW	0	561.0	561.0	2,300	194
5C303	Radiochemical Laboratory Decommissioning LLW	LLW	246.2	698.9	945.1	1,080	40.0
5C304	Radiochemical Laboratory Decommissioning CHILW	ILW	0	34.0	34.0	234	19.7
5C305	DIDO Reactor Decommissioning LLW	LLW	0	262.0	262.0	460	23.5
5C306	DIDO Reactor Decommissioning ILW	ILW	0	60.0	60.0	345	29.1
5C307	PLUTO Reactor Decommissioning LLW	LLW	0	262.0	262.0	460	23.5
5C308	PLUTO Reactor Decommissioning ILW	ILW	0	47.0	47.0	236	19.9
5C309	Minor Facilities Decommissioning LLW	LLW	19.1	128.9	148.0	96.2	0
5C310	Solid Waste Complex Decommissioning ILW	ILW	0	25.0	25.0	169	14.3

Site Owner - Waste Custodian - Site		Waste	Reported volume (m³) ste			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
5C312	Western Storage Area LLW	LLW	2.0	0	2.0	2.0	0	
5C313	B466 Ponds Decommissioning LLW	LLW	4.0	7.5	11.5	22.4	1.2	
5C314	LETP Decommissioning LLW	LLW	155.8	0	155.8	160	1.3	
5C315	Active Handling Facility Decommissioning LLW	LLW	0	420.0	420.0	256	0	
5C316	Solid Waste Complex Decommissioning LLW	LLW	0	2,771.0	2,771.0	2,690	0	
5C317	Harwell Contact Handled ILW Drums	ILW	94.4	0	94.4	120	33.3	
5C318	Harwell Remote Handled ILW - WRATs	ILW	19.1	0	19.1	27.3	47.9	
5C319	Ripple Crates	LLW	20.2	0	20.2	39.4	2.0	
5C320/C	Encapsulated ILW Sludges	ILW	5.2	0	5.2	7.4	13.0	
5C321	Active Handling Facility Decommissioning ILW	ILW	0	1.9	1.9	15.4	1.3	
5C322	Land Remediation LLW	LLW	0	25.0	25.0	48.8	2.5	
5C323	LETP Land Remediation VLLW and LA-LLW	VLLW	116.6	0	116.6	116	0	
5C325	Radiochemical Laboratory Decommissioning VLLW and LA-LLW	VLLW	0	2,628.0	2,628.0	2,630	0	
5C326	Active Handling Facility Decommissioning VLLW and LA-LLW	YLLW	0	480.0	480.0	110	0	
5C327	Solid Waste Complex Decommissioning VLLW and LA-LLW	VLLW	0	869.0	869.0	869	0	
5C328	BEPO Reactor Decommissioning VLLW and LA-LLW	VLLW	38.0	5,020.0	5,058.0	5,060	0	
5C329	DIDO Reactor Decommissioning VLLW and LA-LLW	VLLW	0	455.0	455.0	455	0	
5C330	PLUTO Reactor Decommissioning VLLW and LA-LLW	VLLW	0	454.0	454.0	454	0	
5C331	Minor Facilities Decommissioning VLLW and LA-LLW	VLLW	0	6,562.5	6,562.5	6,560	0	
5C332	Harwell Care & Maintenance VLLW and LA-LLW	VLLW	2.2	21.8	24.0	24.0	0	
5C333	Harwell Care & Maintenance LLW	LLW	0.6	1.4	2.0	3.9	0.2	
5C334	Replacement Effluent Treatment Plant LLW	LLW	4.2	20.8	25.0	48.8	2.5	
5C335	LETP HLA Tanks ILW	ILW	12.6	0	12.6	18.3	32.0	
5C336	Radiologically Contaminated Mercury	LLW	2.0	0	2.0	0	0	
Nuclear Dec	ommissioning Authority - Magnox Ltd - Winfrith							
5G01	Miscellaneous Reactor Hardware ILW	ILW	0.8	0	8.0	1.1	2.0	
5G03/C	Conditioned SGHWR Sludges	LLW	580.8	0	580.8	1,890	96.8	
5G04	Winfrith ILW Sources	ILW	0	< 0.1	<0.1	0	0	
5G10	ILW Concrete-lined Drums	ILW	2.0	0	2.0	2.5	4.4	
5G11	LLW Concrete Lined Drums	LLW	2.5	0	2.5	4.9	0.3	

Site Owner - Waste Custodian - Site		Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
5G21	Organic Wastes	LLW	0.5	2.0	2.5	0	0	
5G23	Thorium Metal	ILW	1.0	0	1.0	57.1	100	
5G24	Winfrith LLW Sources	LLW	<0.1	<0.1	<0.1	< 0.1	<0.1	
5G25	DRAGON High Active Components	ILW	0.2	0	0.2	0.2	0.3	
5G300	Land Remediation VLLW and LA-LLW	VLLW	0	1,268.0	1,268.0	1,270	0	
5G301	SGHWR Decommissioning LLW	LLW	0	4,261.4	4,261.4	4,830	132	
5G302	SGHWR Decommissioning ILW	ILW	0	40.0	40.0	1,040	87.9	
5G303	DRAGON Reactor Decommissioning LLW	LLW	0	585.5	585.5	598	1.3	
5G304	DRAGON Reactor Decommissioning ILW	ILW	0	22.0	22.0	293	24.7	
5G307	Minor Facilities Decommissioning LLW	LLW	0 /	2,344.8	2,344.8	2,000	1.2	
5G308	Legacy Decommissioning LLW	LLW	180.3	0	180.3	186	2.5	
United King	dom Atomic Energy Authority - United Kingdom Atomic Energy							
Authority -	Culham							
5H06	JET Incinerable	LĽW	101.8	26.0	127.8	0	0	
5H07	JET LLW	LLW	34.0	77.0	111.0	140	10.7	
5H10	JET LA-LLW	LLW	102.6	75.0	177.6	178	0	
5H11	UKAEA ILW Non-Incinerable	ILW	0	1.6	1.6	2.0	3.4	
5H12	UKAEA Incinerable	LLW	0	170.0	170.0	0	0	
5H13	UKAEA LA-LLW	LLW	0	19.2	19.2	19.2	0	
5H14	UKAEA LLW	LLW	0	20.4	20.4	25.7	2.0	
5H16	H3AT Incinerable	LLW	0	111.0	111.0	0	0	
5H17	H3AT LA-LLW	LLW	0	60.0	60.0	60.0	0	
5H18	H3AT LLW	LLW	0	60.0	60.0	75.5	5.8	
5H301	JET Decommissioning Non-Activated ILW	ILW	0	8.2	8.2	23.7	2.0	
5H302	JET Decommissioning Tritiated Non-Activated LLW	LLW	0	804.0	804.0	745	8.3	
5H304	JET Decommissioning Tritiated Activated LLW	LLW	0	137.0	137.0	134	1.4	
5H305	JET Decommissioning Concrete LLW	LLW	0	2,798.5	2,798.5	2,900	26.9	
5H306	JET Decommissioning Activated ILW	ILW	0	157.0	157.0	454	38.3	
5H307	LLW Organic Waste	LLW	0	100.0	100.0	0	0	
Nuclear Dec	ommissioning Authority - Magnox Ltd - Harwell							

Site Owner - Waste Custodian - Site		Waste	Reported volume (m³) te			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
6C31/C	NDS Contact Handled ILW	ILW	10.8	0	10.8	13.1	4.0	
6C32	NDS Remote Handled ILW	ILW	0.3	0	0.3	0	0	
6C33/C	NDS Contact Handled ILW	ILW	4.2	0	4.2	5.1	9.0	
Minor Waste	e Producers - Outokumpu - Sheffield							
6J01	Contaminated Slag and Other Materials	LLW	140.8	0	140.8	147	4.9	
Minor Waste	Producers - Rutherford Appleton Laboratory - Harwell							
6N01	Neutron Targets	ILW	0.1	0.2	0.3	0.3	0.5	
6N02	Moderators	ILW	0.9	0.9	1.8	2.2	3.8	
6N03	Reflectors	ILW	2.6	1.0	3.6	4.4	7.7	
6N04	Near Beam Metallic	ILW	6.9	9.1	16.0	19.6	34.2	
6N05	Copper	VLLW	20.0	8.0	28.0	15.1	0	
6N06	Shutters	ILW	13.8	14.8	28.6	21.9	0.1	
6N07	Mixed Metallic	LLW	121.0	113.4	234.4	238	2.6	
6N08	Ion Exchange Material	ILW	1.1	1.0	2.1	2.6	4.6	
6N101	Decommissioning Near Beam Metallic	/ ILW	0	26.0	26.0	31.9	55.8	
6N102	Decommissioning Bulk Steel	ILW	0	4,200.0	4,200.0	1,120	14.2	
6N103	Decommissioning Bulk Concrete	LLW	0	2,600.0	2,600.0	260	0	
6N104	Decommissioning Mixed Metallic	LLW	0	376.0	376.0	150	0	
Ministry of I	Defence - AWE plc - AWE Aldermaston							
7A13	Sea Disposal Packs (Concrete Lined Drums)	ILW	476.5	0	476.5	631	193	
7A21	Operational ILW Plutonium Contaminated	ILW	1,609.6	695.0	2,304.6	1,320	2,300	
7A22	Operational ILW Tritium Hard Waste	ILW	27.5	12.5	39.9	22.8	39.9	
7A23	Operational LLW Requiring Further Assay Through the	LLW	40.0	0	40.0	65.0	3.3	
	Recategorization Programme							
7A24	Operational LLW - Depleted/Natural Uranium	LLW	90.0	183.0	273.0	203	2.4	
7A25	Operational Tritiated LLW	LLW	11.0	133.0	144.0	29.0	0.1	
7A26	Operational LLW - Enriched Uranium	LLW	61.8	310.0	371.8	215	1.1	
7A27	Operational LLW - Plutonium	LLW	226.0	1,469.0	1,695.0	736	3.0	
7A28	Operational LLW - Miscellaneous Radionuclides	LLW	0	16.0	16.0	7.0	< 0.1	
7A29	Uranium Contaminated Operations ILW	ILW	75.3	52.0	127.3	72.7	127	

Site Owner - Waste Custodian - Site		Waste	Reported v	olume (m³)		When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
7A32	Sealed and Unsealed Sources	ILW	0	87.0	87.0	109	5.6	
7A33	Radioactive Contaminated Land	LLW	216.0	3,802.0	4,018.0	4,020	2.2	
7A34	Low Activity Liquids (excluding Hg)	LLW	6.4	25.0	31.4	0	0	
7A36	Pyrochemical Wastes	ILW	2.5	2.3	4.8	5.9	10.3	
7A37	Contaminated Mercury	LLW	3.5	0	3.5	3.7	0.2	
7A40	Experimental Metallic Vessels	ILW	9.0	0	9.0	66.0	20.0	
7A41	Cemented Sludges	LLW	166.1	0	166.1	177	9.1	
7A108	Decommissioning LLW Requiring Further Assay Through the Recategorization Programme	LLW	62.2	0	62.2	71.0	3.6	
7A109	Decommissioning Waste from Reactors ILW	ILW	3.0	4.0	7.0	4.2	1.3	
7A110	Decommissioning Waste Tritium Bearing ILW	ILW	7.2	4.0	11.2	6.4	11.2	
7A111	Decommissioning Waste PCM ILW	ILW	2,376.2	2,280.0	4,656.2	2,660	4,660	
7A112	Decommissioning LLW - Natural / Depleted Uranium	LLW	19.7	746.0	765.7	429	0	
7A113	Decommissioning LLW - Tritiated	ĻĽW	0.2	2,165.0	2,165.2	2,170	59.4	
7A114	Decommissioning LLW - Enriched Uranium	LLW	0	4,106.0	4,106.0	2,480	67.9	
7A115	Decommissioning LLW - Plutonium	LLW	404.0	8,748.0	9,152.0	4,190	26.9	
7A116	Decommissioning LLW - Miscellaneous	LLW	18.6	635.0	653.6	348	11.1	
7A117	Decommissioning Waste Uranium Contaminated ILW	ILW	0	314.0	314.0	179	314	
Ministry of	Defence - Babcock International Group - HMNB Devonport							
7D22	Devonport RA Soft Trash (for Disposal to NWS)	LLW	10.4	236.8	247.2	213	0.1	
7D23	Devonport RA Hard Trash (for Disposal to NWS)	LLW	10.2	110.4	120.6	46.6	0.7	
7D24	ILW Reactor Components	ILW	3.3	5.0	8.3	8.9	0.5	
7D26/C	Devonport Conditioned Low Level Ion-Exchange Resin	LLW	2.8	63.2	66.0	396	20.3	
7D28	Low Level Waste Resin from Plant Decontamination (MODIX)	LLW	20.5	-20.5	0	0	0	
7D29	Intermediate Level Waste Resin from Plant Decontamination (MODIX)	ILW	6.9	-6.9	0	0	0	
7D30/C	Devonport Conditioned Sludge (for Disposal to NWS)	LLW	0.5	16.0	16.5	19.5	1.0	
7D31	Devonport Filters (for Disposal to NWS)	LLW	1.8	12.5	14.3	1.8	0.1	
7D34	Ion Exchange Resin from Primary Circuit Decontamination	LLW	12.0	-12.0	0	0	0	
7D40	ILW PCD Ion Exchange Resin	ILW	7.1	-7.1	0	0	0	
7D41	ILW Submarine Ion Exchange Resin	ILW	1.4	1.7	3.1	18.5	0.9	

Site Owner - Waste Custodian - Site		Waste	Reported vo	olume (m³)		When wastes a future arisings	
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾
Ministry of I	Defence - Babcock International Group - Rosyth Royal Dockyard						
7E22	Submarine Refitting Wastes (Soft Trash)	LLW	0	60.0	60.0	0	0
7E23	Metallic Waste	LLW	3.0	196.9	199.9	213	10.9
7E29	Intermediate Level Ion Exchange Resin (Decontamination)	ILW	22.4	0.8	23.2	24.7	1.3
7E101	Site and Facilities Decommissioning Waste: Steel and Building Rubble	LLW	0	25.0	25.0	25.0	0
Ministry of I	Defence - Ministry of Defence - Clyde Submarine Base						
7F22	Submarine Reactor Wastes (Non-metallic)	LLW	4.0	640.0	644.0	0	0
7F23	Submarine Reactor Wastes (Metallic LLW)	LLW	17.0	470.0	487.0	0	0
7F26/C	Conditioned Ion Exchange Resin from Nuclear Effluent Plants	LLW	0	6.1	6.1	19.5	1.0
7F28	Tritiated Desiccant	LLW	0	0.2	0.2	0	0
Ministry of I	Defence - Babcock and Ministry of Defence - Rosyth & Devonport						
(Submarines	s)						
7G103	LLW from Decommissioned Submarines	LLW	29.6	944.3	973.9	3,130	136
7G104	Long-Lived ILW from Decommissioned Submarines	ILW	0	96.6	96.6	1,240	345
Ministry of I	Defence - Ministry of Defence - HMNB Portsmouth						
7J23	Miscellaneous ILW	ILW	5.0	9.0	14.0	17.2	30.0
7J25	Luminised Waste	ILW	2.4	7.0	9.4	10.0	0.5
7J27	Intermediate Level Tritium Waste	ILW	0.1	0.4	0.5	0.6	1.1
	Defence - Ministry of Defence - Logistic Services Donnington						
7N03	MOD Donnington Miscellaneous LLW	LLW	0	44.0	44.0	47.0	2.4
Ministry of I	Defence - Ministry of Defence - NRTE Vulcan						
7V24	Metallic ILW from Vulcan	ILW	1.3	83.2	84.5	104	181
7V25	Resin from Decontamination Operations ILW	ILW	2.6	0	2.6	3.2	5.6
7V26	Area K Operational Supercompactable Drummed LLW	LLW	12.2	36.0	48.2	60.3	3.1
7V27	Area K Decommissioning LLW	LLW	0	250.0	250.0	267	13.7
7V28	Resin from Decontamination Operations LLW	LLW	3.5	0.1	3.6	3.9	0.2
7V29	Vulcan Contact Handled ILW	ILW	2.6	5.0	7.6	9.3	16.3
7V30	Area Z Operational Supercompactable Drummed LLW	LLW	26.8	84.0	110.8	139	7.1
7V31	Area Z Decommissioning LLW	LLW	0	250.0	250.0	267	13.7
7V32	Area L Operational Supercompactable Drummed LLW	LLW	0	40.0	40.0	50.0	2.6

Site Owner - Waste Custodian - Site		Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
7V33	Area L Decommissioning LLW	LLW	0	250.0	250.0	267	13.7	
Ministry of	Defence - Rolls Royce Submarines Limited - RRSL Derby							
7X01	RRSL Low Level Wastes	LLW	90.0	16,016.0	16,106.0	15,300	0	
Ministry of	Defence - BAE Systems Marine Limited - BAESM Barrow-in-Furness							
7Y101	Decommissioning of Chemistry Laboratory	LLW	0	1.0	1.0	0	0	
7Y102	Decommissioning of Waste Treatment Facility	LLW	0	3.0	3.0	0	0	
Urenco – Ca	penhurst Nuclear Services / Urenco UK / Urenco CP - Capenhurst							
8A01	Feed Filter Material	ILW	0.7	1.8	2.5	3.0	5.4	
8A03	UUK Operational waste	VLLW	130.0	936.0	1,066.0	959	0	
8A05	Empty Uranium Hexafluoride Containers	LLW	0 /	1,776.0	1,776.0	1,780	0	
8A06	Dewatered Sewage Sludge	LLW	20.0	320.0	340.0	340	0	
8A07	Metallic Waste	LLW	20.0	182.4	202.4	162	0	
8A08	Demolition Waste	LLW	200.0	300.0	500.0	500	0	
8A09	Non-Aqueous Waste	LŁW	20.0	5.2	25.2	0	0	
8A10	Aqueous Waste	LLW	40.0	360.0	400.0	0	0	
8A19	Solid Waste from B36 and Legacy Cylinder Facility (LCF)	LLW	2.4	612.0	614.4	36.9	0	
8A20	Contaminated Land - Soil	VLLW	0	12,000.0	12,000.0	12,000	0	
8A21	Contaminated Land - Concrete	VLLW	0	6,450.0	6,450.0	6,450	0	
8A22	Liquors / Sludges from LCF	LLW	0	13.9	13.9	0	0	
8A23	ILW FROM LCF	ILW	0	12.2	12.2	0	0	
8A30	UCP Cemented RRF Concentrate	LLW	0.8	1,000.1	1,000.9	1,000	0	
8A31	UCP Incinerable Solid LLW	LLW	0	2,100.0	2,100.0	0	0	
8A32	UCP Metallic LLW	LLW	2.0	467.6	469.6	0	0	
8A33	UCP Non-Combustible Solid LLW	LLW	0	288.4	288.4	288	0	
8A101	Centrifuge Plant Decommissioning	LLW	65.0	300.0	365.0	82.1	2.3	
8A103	Capenhurst Decommissioning Waste	LLW	50.0	1,404.0	1,454.0	872	0	
Nuclear Dec	ommissioning Authority - Magnox Ltd - Berkeley							
9A03/C	Ion Exchange Material	ILW	11.1	0	11.1	38.1	7.0	
9A25	Ion Exchange Material in Drums	ILW	9.4	0	9.4	201	36.9	
9A25/C	Ion Exchange Material in Drums	ILW	40.0	0	40.0	87.0	16.0	

Site Owner	Site Owner - Waste Custodian - Site		Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9A27	Sludge	ILW	13.5	0	13.5	21.8	4.0	
9A31	FED Graphite	ILW	105.9	0	105.9	0	0	
9A32	FED Graphite	ILW	225.2	0	225.2	1,020	86.0	
9A33	FED Graphite	ILW	39.2	0	39.2	0	0	
9A33/C	FED Graphite	ILW	238.9	0	238.9	484	89.0	
9A34	FED Graphite	ILW	156.1	0	156.1	818	69.0	
9A35	FED Graphite	ILW	65.1	0	65.1	0	0	
9A36	Miscellaneous Contaminated Items	ILW	0.2	0	0.2	0	0	
9A37	Miscellaneous Contaminated Items	ILW	0.2	0	0.2	0	0	
9A38	Miscellaneous Contaminated Items	ILW	10.9	0	10.9	0	0	
9A39	FED Magnox	ILW	16.0	0	16.0	0	0	
9A40	FED Magnox	ILW	24.0	0	24.0	0	0	
9A41	FED Magnox	ILW	28.0	0	28.0	0	0	
9A42	FED Magnox	JĽW	17.0	0	17.0	0	0	
9A43	FED Magnox	ILW	7.0	0	7.0	0	0	
9A44/C	Miscellaneous Activated Components	ILW	6.4	0	6.4	14.4	10.9	
9A45	Miscellaneous Activated Components	ILW	10.0	0	10.0	12.4	0.6	
9A46	Miscellaneous Activated Components	ILW	10.0	0	10.0	12.4	0.6	
9A47	FED Stainless Steel	ILW	0.3	0	0.3	0	0	
9A48	FED Stainless Steel	ILW	0.4	0	0.4	0	0	
9A49	FED Stainless Steel	ILW	0.5	0	0.5	0	0	
9A50	FED Stainless Steel	ILW	0.3	0	0.3	0	0	
9A51	FED Stainless Steel	ILW	0.1	0	0.1	0	0	
9A52	FED Zirconium	ILW	2.2	0	2.2	0	0	
9A53	FED Zirconium	ILW	3.3	0	3.3	0	0	
9A54	FED Zirconium	ILW	4.0	0	4.0	0	0	
9A55	FED Zirconium	ILW	2.4	0	2.4	0	0	
9A56	FED Zirconium	ILW	1.0	0	1.0	0	0	
9A57	Sludge (filter-precoat) from Berkeley Technology Centre	ILW	48.5	0	48.5	0	0	
9A58	Sludge (filter-precoat) from Berkeley Technology Centre	ILW	14.3	0	14.3	0	0	

Site Owner -	· Waste Custodian - Site	Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9A59	Sludge (filter-precoat) from Berkeley Technology Centre	ILW	0.5	0	0.5	0	0	
9A60	FED Magnox from Post Irradiation Examination	ILW	0.7	0	0.7	0	0	
9A61	FED Magnox from Post Irradiation Examination	ILW	61.9	0	61.9	0	0	
9A62	FED Magnox from Post Irradiation Examination	ILW	1.9	0	1.9	0	0	
9A63	FED Magnox from Post Irradiation Examination	ILW	0.1	0	0.1	0	0	
9A64	FED Magnox from Post Irradiation Examination	ILW	6.8	0	6.8	0	0	
9A65	FED Magnox from Post Irradiation Examination	ILW	0.5	0	0.5	0	0	
9A66	Miscellaneous Contaminated Items from Post Irradiation Examination	ILW	0.1	0	0.1	0	0	
9A67	Miscellaneous Contaminated Items from Post Irradiation Examination	ILW	0.1	0	0.1	0	0	
9A68	Miscellaneous Contaminated Items from Post Irradiation Examination	ILW	53.2	0	53.2	664	56.0	
9A69	Miscellaneous Contaminated Items from Post Irradiation Examination	ILW	27.5	0	27.5	0	0	
9A70	Miscellaneous Contaminated Items from Post Irradiation Examination	ILW	30.8	0	30.8	0	0	
9A71	BPS ILW Sludge in Drums	ILW	7.9	0	7.9	27.2	5.0	
9A73	Contaminated Gravel	JLW	47.0	0	47.0	125	23.0	
9A74	Contaminated Gravel	ILW	47.0	0	47.0	125	23.0	
9A75	Contaminated Gravel	ILW	47.0	0	47.0	154	13.0	
9A77	BPS Sludge in Drums	ILW	44.0	0	44.0	0	0	
9A78	BPS Sludge in Drums	ILW	19.7	0	19.7	0	0	
9A80	Drummed Sludge	ILW	3.7	0	3.7	10.9	2.0	
9A82	Ion Exchange Material in Drums	ILW	3.0	0	3.0	0	0	
9A83	Miscellaneous Contaminated Items	ILW	0.1	0	0.1	0	0	
9A84	Miscellaneous Contaminated Items from Post Irradiation Examination	ILW	0.1	0	0.1	0	0	
9A87	Fuel Fragments/High Dose Rate Items	ILW	<0.1	0	< 0.1	5.2	3.9	
9A88	Fuel Fragments/High Dose Rate Items	ILW	<0.1	0	< 0.1	5.3	4.0	
9A916	Empty BPS Sludge Cans	LLW	0	95.3	95.3	258	13.2	
9A917	Empty Drums and Liners	ILW	4.0	4.0	8.0	0	0	
9A920	Reactor LLW	LLW	0.4	5.0	5.4	1.4	0.1	
9A921	AETP and Decontamination LLW	LLW	5.0	29.1	34.1	9.4	0.2	
9A930	Active Waste Vault Retrieval Decommissioning.	LLW	0	165.0	165.0	50.2	0	
9A932	Cooling Water Valve Chamber Sludge	LLW	0.2	0	0.2	0.5	<0.1	

Site Owner	- Waste Custodian - Site	Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9A933	Concrete Slurry	LLW	0.1	0	0.1	0.3	<0.1	
9A980	Caesium Removal Plant Decommissioning.	LLW	0	33.1	33.1	10.2	0.3	
9A105	Reactor LLW	LLW	0	76.0	76.0	0	0	
9A310	Stainless Steel (Reactor) ILW	ILW	0	52.0	52.0	85.0	4.2	
9A311	Mild Steel (Reactor) ILW	ILW	0	270.0	270.0	334	16.7	
9A312	Miscellaneous Metal (Reactor) ILW	ILW	0	52.0	52.0	150	7.5	
9A313	Stainless Steel (Reactor) LLW	LLW	0	6.6	6.6	0	0	
9A314	Mild Steel (Reactor) LLW	LLW	0	211.0	211.0	411	21.1	
9A315	Mild Steel (Non-Reactor) LLW	LLW	0	484.2	484.2	484	0	
9A316	Graphite LLW	LLW	0	33.0	33.0	40.7	2.0	
9A317	Concrete (Reactor and Non-Reactor) LLW	LLW	0	26,128.0	26,128.0	26,100	0	
9A318	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	166.0	166.0	166	0	
9A319	Secondary Wastes LLW	LLW	0	1,116.0	1,116.0	1,120	0	
9A320	Contaminated Soil LLW	LŁW	0	159.9	159.9	160	0	
9A321	Graphite ILW	ILW	0	3,121.0	3,121.0	3,860	193	
9A322	Mild Steel (Reactor) Recycle LLW	LLW	0	2,903.0	2,903.0	0	0	
9A323	Thermal Insulation (Asbestos) LLW	LLW	0	1,562.0	1,562.0	1,560	0	
Nuclear Dec	commissioning Authority - Magnox Ltd - Bradwell							
9B02/C	Ion Exchange Material	ILW	16.4	0	16.4	54.0	40.9	
9B13	Desiccant	ILW	7.9	0	7.9	25.8	1.3	
9B15/C	Sludge	ILW	12.6	0	12.6	43.5	8.0	
9B17/C	Miscellaneous Contaminated Items	ILW	27.4	0	27.4	65.2	12.0	
9B21	FED Magnox, Gravel and Interface	LLW	274.0	0	274.0	205	10.3	
9B28	Miscellaneous Activated Components - R1	ILW	81.0	0	81.0	132	6.6	
9B29	Miscellaneous Activated Components - R2	ILW	81.0	0	81.0	132	6.6	
9B30	Miscellaneous Activated Components - R1	ILW	3.2	0	3.2	5.2	0.3	
9B31	Miscellaneous Activated Components - R2	ILW	3.2	0	3.2	5.2	0.3	
9B55/C	Ponds Decontamination Sludge	ILW	11.5	0	11.5	66.0	50.0	
9B59/C	FED Magnox	ILW	5.2	0	5.2	13.2	10.0	
9B79/C	FED Magnox - Solid Secondary Waste	ILW	0.4	0	0.4	2.6	2.0	

Site Owner -	Waste Custodian - Site	Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9B81/C	FED Magnox - Secondary Ion Exchange Resin (Co-Treat)	ILW	0.6	0	0.6	2.5	1.9	
9B82/C	FED Magnox Dissolution Secondary Waste (Sludge)	ILW	1.4	0	1.4	7.9	6.0	
9B83/C	Graphite Filter Dust Pots	ILW	1.7	0	1.7	9.2	7.0	
9B84/C	FED Magnox - Secondary Granular Activated Carbon (GAC)	ILW	0.8	0	0.8	3.9	2.9	
9B85/C	FED Magnox - Secondary Ion Exchange Resin (Cs-Treat)	ILW	0.4	0	0.4	1.3	1.0	
9B86/C	Sludge	ILW	0.5	0	0.5	7.9	6.0	
9B87/C	Miscellaneous Contaminated Items	ILW	0.5	0	0.5	2.6	2.0	
9B105	Care and Maintenance LLW	LLW	11.0	182.0	193.0	3.8	0.2	
9B310	Stainless Steel (Reactor) ILW	ILW	0	167.0	167.0	358	17.9	
9B311	Mild Steel (Reactor) ILW	ILW	0	412.0	412.0	509	25.4	
9B312	Graphite ILW	ILW	/ 0	3,025.0	3,025.0	3,740	187	
9B313	Miscellaneous Metal (Reactor) ILW	ILW	0	7.0	7.0	11.4	0.6	
9B314	Mild Steel (Reactor) LLW	LLW	0	80.0	80.0	156	8.0	
9B315	Mild Steel (Non-Reactor) LLW	LLW	0	3,404.0	3,404.0	3,400	0	
9B316	Graphite LLW	LLW	0	215.0	215.0	265	13.3	
9B317	Concrete (Reactor and Non-Reactor) LLW	LLW	0	30,244.0	30,244.0	30,200	0	
9B318	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	91.0	91.0	91.0	0	
9B319	Secondary Wastes LLW	LLW	0	1,038.0	1,038.0	1,040	0	
9B320	Stainless Steel (Reactor) LLW	LLW	0	0.2	0.2	0.3	< 0.1	
9B321	Contaminated Soil LLW	LLW	0	2,094.9	2,094.9	2,090	0	
9B322	Mild Steel (Reactor) Recycle LLW	LLW	0	2,602.0	2,602.0	0	0	
9B323	Thermal Insulation (Asbestos) LLW	LLW	0	535.0	535.0	535	0	
Nuclear Dec	ommissioning Authority - Magnox Ltd - Dungeness A							
9C02	PWTP Ion Exchange Material	ILW	2.1	0	2.1	5.9	4.5	
9C02/C ⁽²⁾	PWTP Ion Exchange Material	ILW	23.6	0	23.6	80.4	60.9	
9C13	Magnox Dissolution Plant LLW	LLW	37.1	0	37.1	57.3	2.6	
9C14	Desiccant	ILW	3.8	0	3.8	0	0	
9C15	Incinerator Ash	LLW	0.5	0	0.5	0.5	<0.1	
9C16	PWTP Sludge	ILW	11.0	0	11.0	31.6	23.9	
9C17	Magnox Dissolution Plant Sludge	LLW	29.0	0	29.0	136	7.0	

Site Owner	- Waste Custodian - Site	Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9C20	AETP Sludge	LLW	12.9	0	12.9	39.9	2.0	
9C24	FED Magnox (lugs and splitters)	ILW	1.0	0	1.0	0	0	
9C30	Miscellaneous Activated Components	ILW	52.0	0	52.0	64.3	3.2	
9C32	Miscellaneous Activated Components	ILW	8.4	0	8.4	10.4	0.5	
9C33	Miscellaneous Activated Components	ILW	58.0	0	58.0	71.7	3.6	
9C35	Miscellaneous Activated Components	ILW	6.2	0	6.2	7.7	0.4	
9C36	Ion Exchange Resin from Ponds	ILW	8.4	0	8.4	29.9	22.7	
9C36/C ⁽²⁾	Ion Exchange Resin from Ponds	ILW	18.2	0	18.2	66.6	50.4	
9C37	DNA Resin Secondary Waste	LLW	7.7	0	7.7	1.6	0.1	
9C38	Ion Siv Unit Pre Filters	ILW	1.4	0	1.4	5.4	1.0	
9C40	Ion Siv Unit Post Filters	ILW	0.4	0	0.4	5.4	1.0	
9C41	Ion Siv Unit Pre Filters	ILW	1.1	0	1.1	5.4	1.0	
9C43	Ion Siv Unit Post Filters	ILW	0.8	0	0.8	5.4	1.0	
9C44	Fuel Skips in Pond	JĿW	71.2	0	71.2	142	12.0	
9C45	Fuel Skips in Pond	LLW	14.0	0	14.0	24.7	1.3	
9C47	Miscellaneous Activated Components (including Nimonic Springs, Thermocouples, Nose Cones and End Caps)	ILW	0.3	0	0.3	6.1	4.6	
9C51	Contaminated Zinc Bromide	LLW	0.1	0	0.1	0	0	
9C52	Contaminated Sand	LLW	1.9	0	1.9	3.4	0.2	
9C53	Miscellaneous Contaminated Items	ILW	3.4	0	3.4	0	0	
9C54	Catalyst	ILW	1.5	0	1.5	0	0	
9C55	Doulton Filters	LLW	6.4	0	6.4	12.4	0.6	
9C56	Miscellaneous Activated Components	ILW	9.8	0	9.8	12.1	0.6	
9C57	Miscellaneous Activated Components	ILW	8.3	0	8.3	10.3	0.5	
9C58	AEWTP Cationic, Anionic and CRU1 Resin	LLW	7.0	0	7.0	18.9	1.0	
9C60	Contaminated Oil	LLW	0.3	0	0.3	0	0	
9C61	Contaminated Sand and Gravel from AETP and PWTP Sand Filters	LLW	6.2	0	6.2	15.5	0.8	
9C68	Sand & Gravel ST2	ILW	13.2	0	13.2	32.6	6.0	
9C69	Raschig Rings	LLW	0.5	0	0.5	1.0	0.1	
9C70	Cyclone dust	ILW	0.8	0	0.8	2.6	2.0	
	•							

Site Owner	- Waste Custodian - Site	Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9C71	Ponds Wall Paint Flakes	ILW	0	1.0	1.0	1.2	2.1	
9C911	Reactor and Boiler Systems LLW	LLW	179.4	196.8	376.2	269	0.3	
9C912	Effluent Treatment Plant, Ponds and Decontamination LLW	LLW	0	224.5	224.5	13.9	0.3	
9C913	DAMAL	LLW	0	40.0	40.0	27.6	0.8	
9C915	LLAW Plant	LLW	0	196.4	196.4	196	0	
9C916	Activated Metals	LLW	16.4	0	16.4	0	0	
9C944	Contaminated Insulation	VLLW	0.4	0	0.4	0.4	0	
9C950	Redundant Sealed Sources	LLW	0	<0.1	<0.1	<0.1	<0.1	
9C105	Reactor and Boiler Systems LLW	LLW	0	120.0	120.0	0	0	
9C310	Stainless Steel (Reactor) ILW	ILW	0	143.0	143.0	177	8.8	
9C311	Mild Steel (Reactor) ILW	ILW	0	477.0	477.0	590	29.4	
9C312	Graphite ILW	ILW	0	3,422.0	3,422.0	4,230	211	
9C313	Stainless Steel (Reactor) LLW	LLW	0	1.0	1.0	0	0	
9C314	Mild Steel (Reactor) LLW	LLW	0	457.0	457.0	891	45.7	
9C315	Mild Steel (Non-Reactor) LLW	/ LLW	0	3,607.0	3,607.0	3,610	0	
9C317	Concrete (Reactor and Non-Reactor) LLW	LLW	0	23,611.0	23,611.0	23,600	0	
9C318	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	159.0	159.0	159	0	
9C319	Secondary Wastes LLW	LLW	0	1,019.0	1,019.0	1,020	0	
9C320	Miscellaneous Metals (Reactor) ILW	ILW	0	0.1	0.1	0.1	< 0.1	
9C321	Contaminated Soil LLW	LLW	0	930.0	930.0	930	0	
9C322	Mild Steel (Reactor) Recycle LLW	LLW	0	2,310.0	2,310.0	0	0	
9C323	Reactor and Boiler Systems LLW	LLW	0	209.9	209.9	171	8.1	
9C324	Effluent Treatment Plant, Ponds and Decontamination LLW	LLW	0	159.3	159.3	69.2	3.3	
9C325	Thermal Insulation (Asbestos) LLW	LLW	0	603.0	603.0	603	0	
Nuclear Dec	ommissioning Authority - Magnox Ltd - Hinkley Point A							
9D15	PWTP Fine Filters	ILW	5.8	0	5.8	35.5	3.0	
9D17	PWTP Fine Filters (ILW)	ILW	7.4	1.0	8.4	65.1	5.5	
9D22/1	Sludge	ILW	18.2	0	18.2	39.7	12.1	
9D22/2	Sand	ILW	2.5	0	2.5	5.5	1.7	
9D23	Sludge	ILW	4.8	0	4.8	10.5	3.2	

Site Owner	Site Owner - Waste Custodian - Site		Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9D24	Sludge	ILW	14.4	0	14.4	31.4	9.6	
9D25/1	Ion Exchange Material	ILW	36.5	0	36.5	176	14.8	
9D25/2	Ion Exchange Material	ILW	7.5	0	7.5	36.1	3.0	
9D26	Ion Exchange Material	ILW	15.0	0	15.0	71.0	6.0	
9D27	Ion Exchange Material	ILW	27.0	0	27.0	130	11.0	
9D28	Ion Exchange Material	ILW	29.4	0	29.4	142	12.0	
9D29	Ion Exchange Material	ILW	29.2	0.8	30.0	142	12.0	
9D30	Miscellaneous Contaminated Items	ILW	1.3	0	1.3	11.9	1.0	
9D33	FED Magnox R1	ILW	146.0	0	146.0	331	28.0	
9D34	FED Magnox R2	ILW	155.0	0	155.0	355	30.0	
9D35	Miscellaneous Activated Components R1	ILW	68.0	0	68.0	111	5.6	
9D36	Miscellaneous Activated Components R2	ILW	68.0	0	68.0	111	5.6	
9D37	Miscellaneous Activated Components R1	ILW	2.1	0	2.1	3.4	0.2	
9D38	Miscellaneous Activated Components R2	JĿW	2.1	0	2.1	3.4	0.2	
9D39	FED Nimonic R1	ILW	0.8	0	0.8	20.9	15.8	
9D40	FED Nimonic R2	ILW	0.9	0	0.9	18.4	13.9	
9D41/1	FED Magnox - R1	ILW	78.0	0	78.0	178	15.0	
9D41/2	FED Magnox - R1	ILW	42.0	0	42.0	51.5	90.1	
9D42	FED Magnox - R2	ILW	113.0	0	113.0	249	21.0	
9D43	FED Nimonic - R1	ILW	0.3	0	0.3	7.8	5.9	
9D44	FED Nimonic - R2	ILW	0.2	0	0.2	7.8	5.9	
9D45	Contaminated Gravel and particulate	ILW	10.0	0	10.0	22.9	7.0	
9D46	Contaminated Gravel and particulate	ILW	10.0	0	10.0	22.9	7.0	
9D47	Contaminated Sand and Pond Sludge	ILW	8.5	0	8.5	19.6	6.0	
9D48	Miscellaneous Contaminated Items	LLW	6.7	0	6.7	13.1	0.7	
9D49	Ion Siv Unit Pre Filters	ILW	2.2	0	2.2	11.9	1.0	
9D50	Ion Siv Unit Cartridges	ILW	0.3	0	0.3	2.6	2.0	
9D51	Ion Siv Unit Post Filters	ILW	0.4	0	0.4	11.9	1.0	
9D52	Miscellaneous Activated Components from R1 Pond	ILW	0.8	0	0.8	11.1	8.4	
9D53	VLLW Asbestos and MMMF	VLLW	256.8	0	256.8	257	0	

Site Owner	- Waste Custodian - Site	Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9D54	Miscellaneous Activated Components from R2 pond	ILW	0.9	0	0.9	12.6	9.6	
9D60	Sand in Sand Pressure Filters - PWTP	ILW	19.2	0	19.2	41.9	12.8	
9D64	Contaminated Gravel, Sand & Resin	ILW	6.6	0	6.6	16.4	5.0	
9D65	Ion Exchange Material and Pond Sludge	ILW	5.0	0	5.0	13.1	4.0	
9D66	Contaminated Gravel and Sand	ILW	3.0	0	3.0	6.5	2.0	
9D67	FED Sludge - R1	ILW	5.0	0	5.0	10.9	3.3	
9D68	FED Sludge - R2	ILW	5.0	0	5.0	10.9	3.3	
9D69	FED Sludge - R1	ILW	10.0	0	10.0	0	0	
9D70	FED Sludge - R2	ILW	10.0	0	10.0	0	0	
9D71	Ion Exchange Material	LLW	0	22.9	22.9	186	9.5	
9D72	Sludge/resin from operational clean-up	ILW	3.1	9.0	12.1	59.3	5.0	
9D73	Miscellaneous Activated Components R1	ILW	30.0	0	30.0	49.0	2.4	
9D74	Miscellaneous Activated Components - R2	ILW	30.0	0	30.0	49.0	2.4	
9D75	Vacuum Debris	LŁW	0.8	0	8.0	0.8	< 0.1	
9D76	AETP Sludge LLW	LLW	0	0.6	0.6	4.9	0.3	
9D80	MCI Metallic, contaminated metal from Pond operations	ILW	4.7	0	4.7	11.9	1.0	
9D81	MCI Concrete, contaminated concrete blocks from Pond operations	ILW	1.2	0	1.2	11.9	1.0	
9D82	Vacuum Debris (ILW)	ILW	1.7	0	1.7	11.9	1.0	
9D83	Incinerator Ash (ILW)	ILW	0.8	0	8.0	11.9	1.0	
9D84	Skip Store Skip Coating	ILW	2.4	0	2.4	11.9	1.0	
9D89	PWTP Fine Filters (LLW)	LLW	0.5	1.0	1.5	2.9	0.2	
9D90	Kurion Resin Cartridges	ILW	0	0.5	0.5	2.4	1.8	
9D913	Pond & Effluent Treatment Plant LLW	LLW	0	763.8	763.8	407	15.1	
9D914	General Reactor LLW	LLW	12.2	1,665.0	1,677.2	584	3.3	
9D916	C&M Preps LLW Buildings	LLW	0	167.4	167.4	106	5.0	
9D917	Sludge/Resin from Post Operational Clean Out	ILW	0	0.7	0.7	3.4	0.3	
9D918	Ponds and Magnox Vault Wall Scabblings	LLW	1.0	0	1.0	0.9	<0.1	
9D920	Miscellaneous Decommissioning ILW from Plant Items.	ILW	5.5	4.5	10.0	23.7	2.0	
9D921	Sludge Canning Building Plant Items	ILW	0	6.2	6.2	11.9	1.0	
9D922	Sludge Canning Building Decommissioning LLW	LLW	24.8	115.3	140.1	128	6.3	

Site Owner	- Waste Custodian - Site	Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9D923	Redundant Sealed Sources	LLW	<0.1	<0.1	<0.1	<0.1	<0.1	
9D925	Ponds & Magnox Vault ILW Scabblings	ILW	2.8	0	2.8	11.9	1.0	
9D926	ILW Skip Millings	ILW	0.3	0	0.3	0	0	
9D927	VLLW Metallic waste from skip milling operations	VLLW	2.0	0	2.0	2.0	0	
9D928	Effluent Treatment Plant Sludge	VLLW	2.0	0	2.0	2.0	0	
9D930	Bradwell ILW skips	ILW	3.3	0	3.3	0	0	
9D931	Sellafield ILW skip	ILW	0.2	0	0.2	1.1	0.2	
9D932	Sellafield LLW Skips	LLW	0.8	0	0.8	2.0	0.1	
9D106	General Reactor LLW	LLW	0	96.0	96.0	0	0	
9D310	Stainless Steel (Reactor) ILW	ILW	0	61.0	61.0	75.4	3.8	
9D311	Mild Steel (Reactor) ILW	ILW	0	384.0	384.0	475	23.7	
9D312	Graphite ILW	ILW	0	3,555.0	3,555.0	4,390	219	
9D313	Miscellaneous Metal (Reactor) ILW	ILW	0	12.0	12.0	25.7	1.3	
9D314	Mild Steel (Reactor) LLW	ĻĽW	0	913.0	913.0	1,780	91.3	
9D315	Mild Steel (Non-Reactor) LLW	LLW	0	4,578.0	4,578.0	4,580	0	
9D316	Graphite LLW	LLW	0	47.0	47.0	47.0	0	
9D317	Concrete (Reactor and Non-Reactor) LLW	LLW	0	27,019.0	27,019.0	27,000	0	
9D318	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	194.0	194.0	194	0	
9D319	Secondary Wastes LLW	LLW	0	1,038.0	1,038.0	1,040	0	
9D320	Stainless Steel (Reactor) LLW	LLW	0	0.1	0.1	0.2	< 0.1	
9D321	Contaminated Soil LLW	LLW	0	710.0	710.0	710	0	
9D322	Reactor Neutron Sources R1	ILW	0	0.5	0.5	0.6	< 0.1	
9D323	Reactor Neutron Sources R2	ILW	0	0.5	0.5	0.6	< 0.1	
9D324	Debris in Debris Removal Ducts R1	ILW	0	1.0	1.0	1.2	0.1	
9D325	Debris in Debris Removal Ducts R2	ILW	0	1.0	1.0	1.2	0.1	
9D326	Mild Steel (Reactor) Recycle LLW	LLW	0	2,051.0	2,051.0	0	0	
9D327	Thermal Insulation (Asbestos) LLW	LLW	0	1,186.0	1,186.0	1,190	0	
Nuclear Dec	ommissioning Authority - Magnox Ltd - Oldbury							
9E01	Sludge	ILW	14.7	9.6	24.3	19.6	3.6	
9E17	Sludge	ILW	11.0	5.0	16.0	11.4	2.1	

Intelligentifier Title Title LA. 2022 arisings Total volume (m) volume (m) packages(II) 9E20 Ion Exchange Material ILW 1.4. 2022 arisings 2.9 \$4.4 10.0 9E22 Miscellaneous Contaminated Items ILW 17.2 0.8 18.0 22.3 4.1 9E24 FED Magnox ILW 95.6 0 95.6 129 6.6 9E27 FED Magnox ILW 100.0 0 100.0 135 6.9 9E27 FED Magnox ILW 90.0 97.9 133 6.8 9E28 FED Magnox ILW 90.0 97.9 133 6.8 9E28 FED Magnox ILW 80.3 0 80.3 109 5.6 9E21 FED Magnox ILW 80.3 0 80.3 109 5.6 9E32 Miscellaneous Activated Components ILW 70.1 0 70.1 86.7 43 9E32 Miscellaneous Activated Components	Site Owner -	Site Owner - Waste Custodian - Site		Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
9E22 Miscellaneous Contaminated Items ILW 17.2 0.8 18.0 22.3 4.1 9E24 FED Magnox ILW 93.8 0 93.8 127 6.5 9E25 FED Magnox ILW 99.6 0 95.6 129 6.6 9E26 FED Magnox ILW 100.0 0 100.0 135 6.9 9E27 FED Magnox ILW 97.9 0 97.9 133 6.8 9E28 FED Magnox ILW 80.3 0 80.3 109 5.6 9E31 Miscellaneous Activated Components ILW 52.1 0 52.1 64.4 3.2 9E32 Miscellaneous Activated Components ILW 70.1 0 70.1 86.7 43 9E39 Miscellaneous Activated Components ILW 1.0 0 1.0 1.2 0.1 9E44 FED Nimonic ILW 0.1 0 0.1 5.0 3.8 <th></th> <th>Title</th> <th>type</th> <th></th> <th></th> <th>Total</th> <th></th> <th></th>		Title	type			Total			
9E24 FED Magnox ILW 93.6 0 93.8 127 6.5 9E25 FED Magnox ILW 95.6 0 95.6 129 6.6 9E26 FED Magnox ILW 100.0 0 100.0 135 6.9 9E27 FED Magnox ILW 97.9 0 97.9 133 6.8 9E28 FED Magnox ILW 80.3 0 80.3 109 5.6 9E31 Miscellaneous Activated Components ILW 52.1 0 52.1 64.4 3.2 9E32 Miscellaneous Activated Components ILW 70.1 0 70.1 86.7 4.3 9E39 Miscellaneous Activated Components ILW 70.1 0 70.1 12.0 1.1 2.0 10.0 10.1 12.0 1.1 2.0 92.1 64.4 3.2 98.3 98.3 1.0 9.0 1.0 1.1 5.0 3.8 98.2 1.0 <t< td=""><td>9E20</td><td>Ion Exchange Material</td><td>ILW</td><td>14.7</td><td>6.2</td><td>20.9</td><td>54.4</td><td>10.0</td></t<>	9E20	Ion Exchange Material	ILW	14.7	6.2	20.9	54.4	10.0	
9E25 FED Magnox ILW 95.6 0 95.6 129 6.6 9E26 FED Magnox ILW 100.0 0 100.0 135 6.9 9E27 FED Magnox ILW 80.3 0 80.3 109 5.6 9E28 FED Magnox ILW 80.3 0 80.3 109 5.6 9E31 Miscellaneous Activated Components ILW 52.1 0 52.1 64.4 3.2 9E32 Miscellaneous Activated Components ILW 70.1 0 70.1 86.7 4.3 9E39 Miscellaneous Activated Components ILW 1.0 0 1.0 1.2 0.1 9E49 Miscellaneous Activated Components ILW 1.0 0 1.0 1.2 0.1 9E49 Miscellaneous Activated Components ILW 0.0 0 1.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.1 0.0 0	9E22	Miscellaneous Contaminated Items	ILW	17.2	0.8	18.0	22.3	4.1	
9E26 FED Magnox ILW 100.0 0 100.0 135 6.9 9E27 FED Magnox ILW 97.9 0 97.9 133 6.8 9E28 FED Magnox ILW 80.3 0 80.3 109 5.6 9E31 Miscellaneous Activated Components ILW 52.1 0 52.1 64.4 3.2 9E39 Miscellaneous Activated Components ILW 70.1 0 70.1 86.7 4.3 9E39 Miscellaneous Activated Components ILW 10 0 1.0 1.2 0.1 9E39 Miscellaneous Activated Components ILW 10 0 1.0 1.2 0.1 9E39 Miscellaneous Activated Components ILW 0.1 0 0.1 5.0 3.8 9E39 Miscellaneous Activated Components ILW 0.1 0 0.1 5.0 3.8 9E34 FED Nimonic ILW 0.1 0 0.1 <	9E24	FED Magnox	ILW	93.8	0	93.8	127	6.5	
9E27 FED Magnox ILW 97.9 0 97.9 133 6.8 9E28 FED Magnox ILW 80.3 0 80.3 109 5.6 9E31 Miscellaneous Activated Components ILW 52.1 0 52.1 64.4 3.2 9E32 Miscellaneous Activated Components ILW 70.1 0 70.1 86.7 4.3 9E39 Miscellaneous Activated Components ILW 1.0 0 1.0 1.2 0.1 9E40 FED Nimonic ILW 0.1 0 0.1 5.0 3.8 9E41 FED Nimonic ILW 0.1 0 0.1 5.0 3.8 9E42 FED Nimonic ILW 0.1 0 0.1 5.0 3.8 9E44 FED Nimonic ILW <0.1	9E25	FED Magnox	ILW	95.6	0	95.6	129	6.6	
9E28 FED Magnox ILW 80.3 0 80.3 109 5.6 9E31 Miscellaneous Activated Components ILW 52.1 0 52.1 64.4 3.2 9E32 Miscellaneous Activated Components ILW 10.0 0 70.1 86.7 4.3 9E39 Miscellaneous Activated Components ILW 10.0 0 1.0 1.2 0.1 9E40 FED Nimonic ILW 0.2 0 0.2 7.9 6.0 9E41 FED Nimonic ILW 0.1 0 0.1 5.0 3.8 9E42 FED Nimonic ILW 0.1 0 0.1 5.3 4.0 9E43 FED Nimonic ILW 0.1 0 0.1 5.3 4.0 9E44 FED Nimonic ILW 0.1 0 0.1 5.3 4.0 9E45 Sludge ILW 4.0 0 4.0 10.9 2.0 9E49	9E26	FED Magnox	ILW	100.0	0	100.0	135	6.9	
9E31 Miscellaneous Activated Components ILW 52.1 0 52.1 64.4 3.2 9E32 Miscellaneous Activated Components ILW 70.1 0 70.1 86.7 4.3 9E39 Miscellaneous Activated Components ILW 1.0 0 1.0 1.2 0.1 9E40 FED Nimonic ILW 0.1 0 0.2 7.9 6.0 9E41 FED Nimonic ILW 0.1 0 0.1 5.0 3.8 9E42 FED Nimonic ILW 0.1 0 0.1 5.3 4.0 9E44 FED Nimonic ILW 0.1 0 0.1 5.3 4.0 9E44 FED Nimonic ILW 4.0 0 0.1 5.3 4.0 9E44 FED Nimonic ILW 4.0 0 4.0 0 0 9.0 2.0 0 9.0 2.0 0 0 9.0 2.0 0 9.0 2.	9E27	FED Magnox	ILW	97.9	0	97.9	133	6.8	
9E32 Miscellaneous Activated Components ILW 70.1 0 70.1 86.7 4.3 9E39 Miscellaneous Activated Components ILW 1.0 0 1.0 1.2 0.1 9E40 FED Nimonic ILW 0.2 0 0.2 7.9 6.0 9E41 FED Nimonic ILW 0.1 0 0.1 5.0 3.8 9E42 FED Nimonic ILW <0.1	9E28	FED Magnox	ILW	80.3	0	80.3	109	5.6	
9E39 Miscellaneous Activated Components ILW 1.0 0 1.0 1.2 0.1 9E40 FED Nimonic ILW 0.2 0 0.2 7.9 6.0 9E41 FED Nimonic ILW 0.1 0 0.1 5.0 3.8 9E42 FED Nimonic ILW <0.1 0 <0.1 5.0 0 9E43 FED Nimonic ILW 0.1 0 0.1 5.3 4.0 9E44 FED Nimonic ILW 0.1 0 0.1 5.3 4.0 9E45 Sludge ILW 4.0 0 <0.1 0 0 9E49 Contaminated Gravel ILW 4.0 0 4.0 10.9 2.0 9E50 Contaminated Gravel ILW 4.0 0 4.0 10.9 2.0 9E54 Contaminated Gravel ILW 4.0 0 4.0 10.9 2.0 9E54 Contaminated Gravel	9E31	Miscellaneous Activated Components	ILW	52.1	0	52.1	64.4	3.2	
9E40 FED Nimonic ILW 0.2 0 0.2 7.9 6.0 9E41 FED Nimonic ILW 0.1 0 0.1 5.0 3.8 9E42 FED Nimonic ILW 4.0.1 0 <0.1	9E32	Miscellaneous Activated Components	ILW	70.1	0	70.1	86.7	4.3	
9E41 FED Nimonic ILW 0.1 0 0.1 5.0 3.8 9E42 FED Nimonic ILW <0.1	9E39	Miscellaneous Activated Components	ILW	1.0	0	1.0	1.2	0.1	
9E42 FED Nimonic ILW <0.1 0 <0.1 5.3 4.0 9E43 FED Nimonic ILW 0.1 0 0.1 5.3 4.0 9E44 FED Nimonic ILW <0.1	9E40	FED Nimonic	ILW	0.2	0	0.2	7.9	6.0	
9E43 FED Nimonic ILW 0.1 0 0.1 5.3 4.0 9E44 FED Nimonic ILW <0.1	9E41	FED Nimonic	ILW	0.1	0	0.1	5.0	3.8	
9E44 FED Nimonic ILW <0.1 0 <0.1 0 0 9E45 Sludge ILW 15.6 0 15.6 10.9 2.0 9E49 Contaminated Gravel ILW 4.0 0 4.0 10.9 2.0 9E50 Contaminated Gravel ILW 4.0 0 4.0 10.9 2.0 9E54 Contaminated Oil LLW 1.0 9.3 10.3 0 0 9E55 Ion Siv Filters LLW 2.9 0 2.9 5.7 0.3 9E56/C ³ Ion Siv Unit Cartridges & Post Filters ILW 0.8 0 0.8 5.3 4.0 9E61 ILW Fuel Skips ILW 34.8 0 34.8 11.9 1.0 9E63 Redundant Sources LLW 0 <0.1	9E42	FED Nimonic	ILW	<0.1	0	< 0.1	0	0	
9E45 Sludge ILW 15.6 0 15.6 10.9 2.0 9E49 Contaminated Gravel ILW 4.0 0 4.0 10.9 2.0 9E50 Contaminated Gravel ILW 4.0 0 4.0 10.9 2.0 9E54 Contaminated Oil LLW 1.0 9.3 10.3 0 0 9E55 Ion Siv Filters LLW 2.9 0 2.9 5.7 0.3 9E561 ILW Fuel Skips ILW 0.8 0 0.8 5.3 4.0 9E63 Redundant Sources ILW 34.8 0 34.8 11.9 1.0 9E70 LLW Pond Skips ILW 0 <0.1	9E43	FED Nimonic	ILW	0.1	0	0.1	5.3	4.0	
9E49 Contaminated Gravel ILW 4.0 0 4.0 10.9 2.0 9E50 Contaminated Gravel ILW 4.0 0 4.0 10.9 2.0 9E54 Contaminated Oil LLW 1.0 9.3 10.3 0 0 9E55 Ion Siv Filters LLW 2.9 0 2.9 5.7 0.3 9E56/C ⁽³⁾ Ion Siv Unit Cartridges & Post Filters ILW 0.8 0 0.8 5.3 4.0 9E61 ILW Fuel Skips ILW 34.8 0 34.8 11.9 1.0 9E63 Redundant Sources LLW 0 <0.1	9E44	FED Nimonic	/ ILW	<0.1	0	< 0.1	0	0	
9E50 Contaminated Gravel ILW 4.0 0 4.0 10.9 2.0 9E54 Contaminated Oil LLW 1.0 9.3 10.3 0 0 9E55 Ion Siv Filters LLW 2.9 0 2.9 5.7 0.3 9E56/C ⁽³⁾ Ion Siv Unit Cartridges & Post Filters ILW 0.8 0 0.8 5.3 4.0 9E61 ILW Fuel Skips ILW 34.8 0 34.8 11.9 1.0 9E63 Redundant Sources LLW 0 <0.1	9E45	Sludge	ILW	15.6	0	15.6	10.9	2.0	
9E54 Contaminated Oil LLW 1.0 9.3 10.3 0 0 9E55 Ion Siv Filters LLW 2.9 0 2.9 5.7 0.3 9E56/C ⁽³⁾ Ion Siv Unit Cartridges & Post Filters ILW 0.8 0 0.8 5.3 4.0 9E61 ILW Fuel Skips ILW 34.8 0 34.8 11.9 1.0 9E63 Redundant Sources LLW 0 <0.1	9E49	Contaminated Gravel	ILW	4.0	0	4.0	10.9	2.0	
9E55 Ion Siv Filters LLW 2.9 0 2.9 5.7 0.3 9E56/C(3) Ion Siv Unit Cartridges & Post Filters ILW 0.8 0 0.8 5.3 4.0 9E61 ILW Fuel Skips ILW 34.8 0 34.8 11.9 1.0 9E63 Redundant Sources LLW 0 <0.1	9E50	Contaminated Gravel	ILW	4.0	0	4.0	10.9	2.0	
9E56/C ⁽³⁾ Ion Siv Unit Cartridges & Post Filters ILW 0.8 0 0.8 5.3 4.0 9E61 ILW Fuel Skips ILW 34.8 0 34.8 11.9 1.0 9E63 Redundant Sources LLW 0 <0.1	9E54	Contaminated Oil	LLW	1.0	9.3	10.3	0	0	
9E61 ILW Fuel Skips ILW 34.8 0 34.8 11.9 1.0 9E63 Redundant Sources LLW 0 <0.1	9E55	Ion Siv Filters	LLW	2.9	0	2.9	5.7	0.3	
9E63 Redundant Sources LLW 0 <0.1 <0.1 <0.1 <0.1 9E70 LLW Pond Skips LLW 146.4 0 146.4 260 13.3 9E913 AETP LLW LLW 3.5 142.4 145.8 87.3 3.4 9E914 Ponds and Other Wet Fuel Routes LLW LLW 62.0 258.5 320.5 99.3 4.0 9E958 Dry Fuel Route (excluding BCD) LLW LLW 2.4 148.2 150.6 78.5 3.8 9E959 BCD LLW LLW 0.3 13.9 14.1 12.0 0.6 9E960 Active Waste Store, Active Laundry LLW LLW 9.0 70.8 79.8 31.7 1.2	9E56/C ⁽³⁾	Ion Siv Unit Cartridges & Post Filters	ILW	0.8	0	0.8	5.3	4.0	
9E70 LLW Pond Skips LLW 146.4 0 146.4 260 13.3 9E913 AETP LLW LLW 3.5 142.4 145.8 87.3 3.4 9E914 Ponds and Other Wet Fuel Routes LLW LLW 62.0 258.5 320.5 99.3 4.0 9E958 Dry Fuel Route (excluding BCD) LLW LLW 2.4 148.2 150.6 78.5 3.8 9E959 BCD LLW LLW 0.3 13.9 14.1 12.0 0.6 9E960 Active Waste Store, Active Laundry LLW LLW 9.0 70.8 79.8 31.7 1.2	9E61	ILW Fuel Skips	ILW	34.8	0	34.8	11.9	1.0	
9E913 AETP LLW 3.5 142.4 145.8 87.3 3.4 9E914 Ponds and Other Wet Fuel Routes LLW LLW 62.0 258.5 320.5 99.3 4.0 9E958 Dry Fuel Route (excluding BCD) LLW LLW 2.4 148.2 150.6 78.5 3.8 9E959 BCD LLW LLW 0.3 13.9 14.1 12.0 0.6 9E960 Active Waste Store, Active Laundry LLW LLW 9.0 70.8 79.8 31.7 1.2	9E63	Redundant Sources	LLW	0	< 0.1	< 0.1	< 0.1	< 0.1	
9E914 Ponds and Other Wet Fuel Routes LLW LLW 62.0 258.5 320.5 99.3 4.0 9E958 Dry Fuel Route (excluding BCD) LLW LLW 2.4 148.2 150.6 78.5 3.8 9E959 BCD LLW LLW 0.3 13.9 14.1 12.0 0.6 9E960 Active Waste Store, Active Laundry LLW LLW 9.0 70.8 79.8 31.7 1.2	9E70	LLW Pond Skips	LLW	146.4	0	146.4	260	13.3	
9E958 Dry Fuel Route (excluding BCD) LLW LLW 2.4 148.2 150.6 78.5 3.8 9E959 BCD LLW LLW 0.3 13.9 14.1 12.0 0.6 9E960 Active Waste Store, Active Laundry LLW LLW 9.0 70.8 79.8 31.7 1.2	9E913	AETP LLW	LLW	3.5	142.4	145.8	87.3	3.4	
9E959 BCD LLW 0.3 13.9 14.1 12.0 0.6 9E960 Active Waste Store, Active Laundry LLW LLW 9.0 70.8 79.8 31.7 1.2	9E914	Ponds and Other Wet Fuel Routes LLW	LLW	62.0	258.5	320.5	99.3	4.0	
9E960 Active Waste Store, Active Laundry LLW 9.0 70.8 79.8 31.7 1.2	9E958	Dry Fuel Route (excluding BCD) LLW	LLW	2.4	148.2	150.6	78.5	3.8	
·	9E959	BCD LLW	LLW	0.3	13.9	14.1	12.0	0.6	
9E961/C Ion Siv Unit Cartridges & Pre Filters ILW 0.8 0 0.8 5.3 4.0	9E960	Active Waste Store, Active Laundry LLW	LLW	9.0	70.8	79.8	31.7	1.2	
	9E961/C	Ion Siv Unit Cartridges & Pre Filters	ILW	0.8	0	0.8	5.3	4.0	

Site Owner -	· Waste Custodian - Site	Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9E962/C	Ion Siv Unit Cartridges	ILW	0.2	0	0.2	2.6	2.0	
9E104	Care & Maintenance : Dry Fuel Route LLW	LLW	0	120.0	120.0	0	0	
9E310	Stainless Steel (Reactor) ILW	ILW	0	80.5	80.5	173	8.7	
9E311	Mild Steel (Reactor) ILW	ILW	0	489.1	489.1	605	30.2	
9E312	Stainless Steel (Reactor) Recycle LLW	LLW	0	68.1	68.1	0	0	
9E313	Mild Steel (Reactor) LLW	LLW	0	266.0	266.0	519	26.6	
9E315	Graphite LLW	LLW	0	1,890.0	1,890.0	2,330	117	
9E316	Concrete (Reactor and Non-Reactor) LLW	LLW	0	58,029.0	58,029.0	58,000	0	
9E317	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	63.0	63.0	63.0	0	
9E318	Secondary Wastes LLW	LLW	0	1,206.0	1,206.0	1,210	0	
9E319	Graphite ILW	ILW	0	3,303.0	3,303.0	4,080	204	
9E320	Miscellaneous Metals (Reactor) ILW	ILW	0	0.1	0.1	0.1	< 0.1	
9E321	Contaminated Soil LLW	LLW	0	1,000.0	1,000.0	1,000	0	
9E322	Mild Steel (Reactor) Recycle LLW	LLW	0	1,481.0	1,481.0	0	0	
9E323	Dry Fuel Route (excluding BCD) LLW	/ LLW	0	3,513.2	3,513.2	1,790	0	
9E324	BCD LLW	LLW	0	114.9	114.9	137	7.0	
9E325	Thermal Insulation (Asbestos) LLW	LLW	0	36.0	36.0	36.0	0	
Nuclear Dec	ommissioning Authority - Magnox Ltd - Sizewell A							
9F02	Ion Exchange Material	LLW	2.0	0	2.0	16.3	0.8	
9F14	Desiccant and Catalyst from Gas Conditioning Plant	ILW	4.9	0	4.9	0	0	
9F17	Sludge	LLW	12.8	0	12.8	104	5.3	
9F18	Miscellaneous Drummed Contaminated and Activated Items	ILW	90.0	0	90.0	176	9.0	
9F19	Miscellaneous Drummed Contaminated and Activated Items	LLW	48.0	0	48.0	0	0	
9F23	FED Magnox	LLW	261.0	0	261.0	353	18.1	
9F25	Miscellaneous Activated Components	ILW	145.0	0	145.0	179	9.0	
9F26	Miscellaneous Activated Components - R1	ILW	142.0	0	142.0	176	8.8	
9F27	Miscellaneous Activated Components - R2	ILW	113.0	0	113.0	140	7.0	
9F28	Shield Cooling Air Filters - R1	LLW	12.7	0	12.7	1.3	0	
9F29	Shield Cooling Air Filters - R2	LLW	15.6	0	15.6	1.6	0	
9F33	Ion Siv Unit Filters	ILW	0.4	0	0.4	0.8	0.2	

Site Owner -	Waste Custodian - Site	Waste	Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9F37	Sludge	ILW	0	15.1	15.1	16.3	3.0	
9F38	PWTP Filters - Sand and Gravel	ILW	0	9.4	9.4	21.7	4.0	
9F39	Fuel Skips	ILW	48.1	0	48.1	94.7	8.0	
9F42	AETP Filters - Sand and Gravel	ILW	0	2.3	2.3	18.7	1.0	
9F43	FED Nimonic/Zirconium	ILW	< 0.1	0	< 0.1	1.3	1.0	
9F45	Fuel Bottle	ILW	< 0.1	0	<0.1	1.3	1.0	
9F46	Fuel Skips in Pond	LLW	93.6	0	93.6	183	9.4	
9F47	Fuel Fragments	ILW	< 0.1	0	<0.1	1.3	1.0	
9F48	MCI - Miscellaneous Ponds Debris	ILW	0.5	0	0.5	0	0	
9F910	Reactor Area LLW	LLW	0	256.7	256.7	43.6	2.2	
9F911	Ponds and Effluent Treatment Plant LLW	LLW	0	475.2	475.2	465	23.8	
9F913	VLLW Reactor Area Lagging	VLLW	0	56.0	56.0	56.0	0	
9F950	Redundant Sealed Sources	LLW	0	< 0.1	<0.1	<0.1	< 0.1	
9F105	Care & Maintenance LLW	LLW	0	110.0	110.0	0	0	
9F310	Stainless Steel (Reactor) ILW	/ILW	0	19.0	19.0	23.5	1.2	
9F311	Mild Steel (Reactor) ILW	ILW	0	398.0	398.0	492	24.6	
9F312	Graphite ILW	ILW	0	3,606.0	3,606.0	4,460	223	
9F313	Miscellaneous Metal (Reactor) ILW	ILW	0	2.4	2.4	5.1	0.3	
9F314	Stainless Steel (Reactor) Recycle LLW	LLW	0	0.9	0.9	0	0	
9F315	Mild Steel (Reactor) LLW	LLW	0	569.0	569.0	1,110	56.9	
9F316	Mild Steel (Non-Reactor) LLW	LLW	0	2,774.0	2,774.0	2,770	0	
9F318	Concrete (Reactor and Non-Reactor) LLW	LLW	0	23,501.0	23,501.0	23,500	0	
9F319	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	98.0	98.0	98.0	0	
9F320	Secondary Wastes LLW	LLW	0	1,043.0	1,043.0	1,040	0	
9F321	Contaminated Soil LLW	LLW	0	308.0	308.0	308	0	
9F322	Mild Steel (Reactor) Recycle LLW	LLW	0	2,475.0	2,475.0	0	0	
9F323	Ponds and Effluent Treatment Plant LLW	LLW	0	282.2	282.2	195	0	
9F324	Reactor Area LLW/VLLW	LLW	0	949.4	949.4	541	0	
9F325	Thermal Insulation (Asbestos) LLW	LLW	0	1,287.0	1,287.0	1,290	0	
Nuclear Dec	ommissioning Authority - Magnox Ltd - Trawsfynydd							

Site Owner -	· Waste Custodian - Site	Waste	Reported v	olume (m³)		When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9G04/C	Ion Exchange Material Conditioned Waste	ILW	312.2	0	312.2	1,370	68.6	
9G16/C	Sludge - Conditioned Material	ILW	61.6	0	61.6	73.1	28.0	
9G18/C	Ion Exchange Material - Conditioned Waste	ILW	653.7	0	653.7	2,870	143	
9G19/C	Ion Exchange Material - Conditioned Waste	ILW	215.0	0	215.0	946	47.3	
9G20/C	Ion Exchange Material - Conditioned Waste	ILW	188.5	0	188.5	828	41.3	
9G34	FED Magnox	ILW	108.3	0	108.3	141	43.0	
9G34/C	FED Magnox	ILW	37.7	0	37.7	42.5	13.0	
9G35	FED Magnox	ILW	192.1	0	192.1	244	74.7	
9G35/C	FED Magnox	ILW	49.3	0	49.3	55.6	17.0	
9G36/C	Conditioned Miscellaneous Activated Components	ILW	46.4	0	46.4	52.3	16.0	
9G37/C	Conditioned Miscellaneous Activated Components	ILW	46.4	0	46.4	52.3	16.0	
9G38	Miscellaneous Activated Components	ILW	21.0	0	21.0	26.0	1.3	
9G39	Miscellaneous Activated Components	ILW/	21.0	0	21.0	26.0	1.3	
9G48/C	Encapsulated Skips and Debris from Fuel Cooling Pond	ILW	8.1	0	8.1	9.8	3.0	
9G49	Contaminated Oil - Drummed	LLW	2.9	0	2.9	0	0	
9G64	Miscellaneous Contaminated Items	ILW	2.0	0	2.0	0	0	
9G66	Miscellaneous Contaminated Items	LLW	2.0	0	2.0	3.7	0.2	
9G69	Miscellaneous Contaminated Items - Debris from Fuel Cooling Ponds	ILW	0.7	0	0.7	6.5	2.0	
9G71	Diversion Culvert Silt	LLW	35.0	74.6	109.6	12.0	<0.1	
9G73	Wet / Mobile Waste - WRATS	ILW	0.8	0	0.8	0	0	
9G74	Wet / Mobile Waste - WRATS	LLW	2.0	0	2.0	3.7	0.2	
9G76	Concrete from Base of Magnox Debris South Vault	ILW	0	7.7	7.7	36.0	11.0	
9G77	Concrete from Base of Magnox Debris North Vault	ILW	0	7.7	7.7	36.0	11.0	
9G78/C	Sludge (incorporating MSV and RV1 WRATS) - Conditioned Material	ILW	105.6	0	105.6	125	48.0	
9G104	Resin Vaults LLW	LLW	11.3	115.6	126.8	70.2	2.2	
9G105	Reactor LLW	LLW	0	215.7	215.7	144	1.2	
9G106	Ponds LLW	LLW	0	533.6	533.6	424	12.4	
9G107/C	Ion Exchange Material	ILW	103.8	0	103.8	454	22.7	
9G109	Pond Scabbling Wastes	LLW	107.5	0	107.5	175	8.6	
9G110	Reactor LLW	LLW	0	90.0	90.0	0	0	

Site Owner -	Waste Custodian - Site	Waste	Reported v	olume (m³)		When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9G112	Redundant Sealed Sources	LLW	0	<0.1	<0.1	<0.1	<0.1	
9G113	CDVAR Plates	LLW	1.8	0	1.8	3.5	0.2	
9G118	Active Drains	LLW	8.0	0	8.0	1.0	0	
9G121	Active Drains (Final Delay Tank)	LLW	0	28.0	28.0	16.6	0.1	
9G124	Loose Particulate Waste North and South FED vaults	ILW	0	3.8	3.8	19.1	5.8	
9G125	R2 Pressure Vessel Sampling Inspection Equipment	ILW	3.0	0	3.0	0	0	
9G126	DWTP Sand Filtration Vessel	ILW	3.0	0	3.0	0	0	
9G129	Active Waste Vaults ILW	ILW	2.0	0	2.0	42.4	13.0	
9G129/C	Active Waste Vaults ILW	ILW	46.4	0	46.4	52.3	16.0	
9G130	Flux Detectors	ILW	1.0	0	1.0	1.6	0.5	
9G131	AETP Sand & Sludge	ILW	6.5	0	6.5	0	0	
9G309	Stainless Steel (Reactor) ILW	ILW	0	51.6	51.6	111	5.5	
9G310	Mild Steel (Reactor) ILW	ILW/	0	1,157.7	1,157.7	1,430	71.5	
9G311	Graphite ILW	ILW	0	3,432.0	3,432.0	4,240	212	
9G312	Miscellaneous Metal (Reactor) ILW	/ILW	0	10.3	10.3	22.2	1.1	
9G313	Stainless Steel (Reactor) Recycle LLW	LLW	0	10.0	10.0	0	0	
9G314	Mild Steel (Reactor) LLW	LLW	0	238.0	238.0	464	23.8	
9G315	Mild Steel (Non-Reactor) LLW	LLW	0	3,475.0	3,475.0	3,480	0	
9G316	Graphite LLW	LLW	0	48.0	48.0	59.3	3.0	
9G317	Concrete (Reactor and Non-Reactor) LLW	LLW	0	34,645.0	34,645.0	67,600	3,460	
9G318	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	103.0	103.0	103	0	
9G319	Secondary Wastes LLW	LLW	0	1,092.0	1,092.0	1,090	0	
9G320	Contaminated Soil LLW	LLW	0	3,200.0	3,200.0	3,200	0	
9G321	Mild Steel (Reactor) Recycle LLW	LLW	0	2,079.0	2,079.0	0	0	
9G322	Thermal Insulation (Asbestos) LLW	LLW	0	663.0	663.0	663	0	
Nuclear Dec	ommissioning Authority - Magnox Ltd - Wylfa							
9H15	Sludge	LLW	27.1	8.5	35.6	289	14.8	
9H16	Sludge	LLW	6.6	1.7	8.3	67.4	3.5	
9H17	Sludge	LLW	6.6	1.7	8.3	67.4	3.5	
9H18	Miscellaneous Activated Components	ILW	268.2	0	268.2	332	16.6	

Site Owner	- Waste Custodian - Site	Waste	Reported v	olume (m³)		When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9H19	Miscellaneous Activated Components	ILW	268.0	0	268.0	331	16.5	
9H20	Miscellaneous Activated Components	ILW	299.1	0	299.1	370	18.5	
9H21	Contaminated Waste Oil	LLW	9.6	2.4	12.0	0	0	
9H24	Burst Can Detector Coolers	ILW	2.6	2.8	5.4	16.3	3.0	
9H25	Type H Cleaner Bags	ILW	1.9	0	1.9	5.4	1.0	
9H26	DSC4 Uranic Corrosion Debris	ILW	<0.1	0	<0.1	0	0	
9H26/C	DSC4 Uranic Corrosion Debris	ILW	0.3	0	0.3	3.9	3.0	
9H27	Auxiliary Gas Systems	ILW	4.4	0.6	5.0	15.8	2.9	
9H28	Redundant Sealed Sources	LLW	0	<0.1	<0.1	<0.1	<0.1	
9H29	Dry Store Cell 4 Residue	LLW	1.5	1.0	2.5	2.1	<0.1	
9H32	Water/Sludge Active Incinerator Effluent Tanks	LLW	0.5	0	0.5	0	0	
9H33	Graphite ILW	ILW	<0.1	0	<0.1	0	0	
9H34	Pile Cap, Dry Fuel Store and associated areas	ILW/	0.2	0	0.2	0.4	0.1	
9H35	Type H Cleaner Bags	ILW	<0.1	0	< 0.1	0	0	
9H911	Pile Cap, Dry Fuel Store and Associated Areas LLW	/ LLW	27.8	615.5	643.3	44.4	1.6	
9H912	Flask Handling Area and AETP LLW	LLW	3.0	246.3	249.3	36.5	0.9	
9H914	Auxiliary Gas Systems LLW	LLW	15.8	44.6	60.3	4.9	0.2	
9H929	Incinerator Building - LLW	LLW	0	36.9	36.9	2.9	0.1	
9H930	Dry Store Cell 4	LLW	0	151.1	151.1	34.1	1.4	
9H932	Flask Filling Area Sludge	ILW	0	0.1	0.1	1.3	1.0	
9H104	Care & Maintenance LLW	LLW	0	128.0	128.0	0	0	
9H309	Stainless Steel (Reactor) ILW	ILW	0	75.0	75.0	122	6.1	
9H310	Mild Steel (Reactor) ILW	ILW	0	371.0	371.0	459	22.9	
9H311	Graphite ILW	ILW	0	5,915.0	5,915.0	7,310	365	
9H312	Stainless Steel (Reactor) Recycle LLW	LLW	0	287.0	287.0	0	0	
9H313	Mild Steel (Reactor) LLW	LLW	0	51.0	51.0	99.5	5.1	
9H315	Graphite LLW	LLW	0	2,737.0	2,737.0	2,740	0	
9H316	Concrete (Reactor and Non-Reactor) LLW	LLW	0	57,208.0	57,208.0	57,200	0	
9H317	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	224.0	224.0	437	22.4	
9H318	Secondary Wastes LLW	LLW	0	1,571.0	1,571.0	1,570	0	
	•							

Site Owner	- Waste Custodian - Site	Waste	Reported v	olume (m³)		When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9H319	Miscellaneous Metals (Reactor) ILW	ILW	0	21.9	21.9	47.2	2.4	
9H322	Mild Steel (Reactor) Recycle LLW	LLW	0	3,937.0	3,937.0	0	0	
9H323	Pile Cap, Dry Fuel Store and Associated Areas LLW	LLW	0	683.3	683.3	112	5.0	
9H324	Flask Handling Area and AETP LLW	LLW	0	77.9	77.9	11.7	0	
9H325	Auxiliary Gas Systems LLW	LLW	0	41.1	41.1	3.2	0.2	
9H326	Incinerator Building - LLW	LLW	0	65.4	65.4	65.4	0	
9H327	Dry Store Cell 4	LLW	0	203.0	203.0	117	5.5	
Nuclear Dec	ommissioning Authority - Magnox Ltd - Hunterston A							
9J03	Ion Exchange Resins	ILW	0.1	0	0.1	0	0	
9J03/C	Conditioned Ion Exchange Resin / sludge	ILW	193.6	0	193.6	230	88.0	
9J19	Bunker Waste	ILW	560.2	0	560.2	898	275	
9J20	Bunker Waste	ILW	502.0	0	502.0	907	277	
9J21	Bunker Waste	ILW	488.4	0	488.4	895	274	
9J22	Bunker Waste	ILW	109.4	0	109.4	202	61.8	
9J23	Bunker Waste	/ ILW	595.4	0	595.4	782	239	
9J33	CCP Sludge	ILW	42.3	0	42.3	93.9	36.0	
9J33/C	Conditioned Sludge	ILW	145.2	0	145.2	172	66.0	
9J45	Miscellaneous Activated Components R1	ILW	0.8	0	0.8	1.0	<0.1	
9J46	Miscellaneous Activated Components R2	ILW	0.6	0	0.6	0.7	<0.1	
9J52	Desiccant	ILW	6.5	0	6.5	0	0	
9J59	Ion Siv Cartridges	ILW	0.1	0.1	0.2	13.1	4.0	
9J60	Ion Siv Unit Post Filters	ILW	0.1	0	0.1	6.5	2.0	
9J61	Pond Skip Decontamination Liquor	ILW	140.0	0	140.0	224	85.9	
9J62	Bunker Graphite Fines	ILW	8.8	0	8.8	13.1	5.0	
9J63	CCP Sludge	ILW	58.7	0	58.7	206	63.0	
9J948	Reactor and Auxiliary Building LLW	LLW	19.2	133.6	152.8	125	0	
9J949	Pond and Effluent Treatment Plant LLW	LLW	49.0	164.0	213.0	240	6.4	
9J952	Redundant Sealed Sources	LLW	0	< 0.1	<0.1	<0.1	<0.1	
9J100	General Reactor LLW	LLW	0	90.0	90.0	0	0	
9J301	Graphite ILW	ILW	0	3,434.0	3,434.0	4,250	212	

Site Owner	· Waste Custodian - Site	Waste	Reported v	olume (m³)		When wastes at 1.4.2022 and future arisings are packaged		
Stream Identifier	Title	type	At 1.4.2022	Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾	
9J302	Concrete (Reactor and Non-Reactor) LLW	LLW	0	29,212.0	29,212.0	29,200	0	
9J303	Mild Steel (Reactor) ILW	ILW	0	246.0	246.0	304	15.2	
9J306	Stainless Steel (Reactor) ILW	ILW	0	67.0	67.0	82.8	4.1	
9J310	Stainless Steel (Reactor) Recycle LLW	LLW	0	5.2	5.2	0	0	
9J311	Mild Steel (Reactor) LLW	LLW	0	818.0	818.0	1,600	81.8	
9J312	Mild Steel (Non-Reactor) LLW	LLW	0	4,242.0	4,242.0	4,240	0	
9J313	Graphite LLW	LLW	0	6.7	6.7	6.7	0	
9J314	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	304.0	304.0	304	0	
9J315	Secondary Wastes LLW	LLW	0	1,234.0	1,234.0	1,230	0	
9J316	Miscellaneous Metals (Reactor) ILW	ILW	0	6.8	6.8	11.1	0.6	
9J318	Mild Steel (Reactor) Recycle LLW	LLW	0	2,861.0	2,861.0	0	0	
9J319	Reactor and Auxiliary Building LLW	LLW	0	469.7	469.7	255	11.4	
9J320	Pond and Effluent Treatment Plant LLW	LLW	0	611.1	611.1	747	23.6	
9J321	Thermal Insulation (Asbestos) LLW	LĽW	0	1,548.0	1,548.0	1,550	0	
Nuclear Dec	ommissioning Authority - Magnox Ltd - Berkeley Centre							
9R02	Miscellaneous ILW	ILW	11.0	0	11.0	7.9	6.0	
9R10	ILW Ion Exchange Material	ILW	0.7	0	0.7	0	0	
9R13	Steel Surveillance Canisters	ILW	0.4	0	0.4	0	0	
9R14	Depleted Uranium	LLW	< 0.1	0	<0.1	0.1	<0.1	
9R15	Natural Uranium	LLW	< 0.1	0	<0.1	0.1	< 0.1	
9R16	Low Enriched Uranium	LLW	< 0.1	0	<0.1	0.1	< 0.1	
9R17	Irradiated Uranium	ILW	< 0.1	0	<0.1	0	0	
9R18	Thorium	LLW	< 0.1	0	<0.1	0.1	< 0.1	
9R19	Graphite Samples	ILW	< 0.1	0	<0.1	0	0	
9R101	Berkeley Centre Decommissioning : Primary ILW	ILW	0	18.9	18.9	32.6	6.0	
9R101/C	Berkeley Centre Decommissioning : Primary ILW	ILW	15.0	0	15.0	32.6	6.0	
9R102	Berkeley Centre Decommissioning : Primary LLW	LLW	0	184.3	184.3	34.7	0.4	
9R111	Berkeley Centre Decommissioning: LLW Ion Exchange Material	LLW	0.1	0	0.1	0.5	<0.1	
9R113	Redundant Radioactive Sources	LLW	<0.1	< 0.1	<0.1	<0.1	<0.1	
9R115	Miscellaneous Oily Wastes (WRATs)	LLW	0.2	0	0.2	2.0	0.2	

Site Owner -	Site Owner - Waste Custodian - Site		Reported volume (m³)			When wastes at 1.4.2022 and future arisings are packaged	
Stream Identifier	Title	type		Future arisings	Total	Packaged volume (m³)	Number of packages ⁽¹⁾
9R116	High Enriched Uranium	LLW	<0.1	0	<0.1	0.1	<0.1
9R118	Radiochemical Laboratory Samples	ILW	0.7	0	0.7	0	0

- (1) Package numbers are not reported for LLW and VLLW suitable for landfill disposal (such lightly contaminated waste does not require the same degree of engineered protection provided by the LLWR and the Dounreay LLW facility). A nominal packaged volume is given that is the same as the reported volume.
- (2) Streams 9C02/C and 9C36/C are located at Bradwell ISF as part of regional storage strategy.
- (3) Stream 9E56/C is located at Berkeley ISF as part of regional storage strategy.
- (4) Stream 3T08 packaged volume based upon waste loading of 4.4 m³.

8 RADIONUCLIDE COMPOSITION OF WASTES

This section provides information on the radionuclide composition of HLW, ILW, LLW and VLLW (see Section 2 for details).

Table 7.1 gives the radioactivities of radionuclides in all wastes at 1 April 2022 and at 1 April 2200 (decayed values). Figures 7.1-7.4 show those radionuclides that are the major contributors to the radioactivities of HLW, ILW and VLLW respectively. It also shows how these contributions change with time.

Table 7.1: Radionuclide activities for all wastes

		Radionucl	ide activity (TBo	g) ⁽¹⁾					
Radionuclide	Half-life (years)	At 1.4.202				At 1.4.220	0		
		HLW	ILW	LLW	VLLW	HLW	ILW	LLW	VLLW
H3	1.23E+01	-	3.6E+4	5.9E+0	3.6E-3	-	2.9E+0	9.1E-2	9.1E-3
Be10	1.60E+06	1.1E-1	3.8E-1	2.3E-5	-	1.2E-1	3.8E-1	2.3E-5	-
C14	5.73E+03	-	9.3E+2	3.3E-1	5.5E-4	-	9.9E+3	1.3E+1	8.1E-2
Na22	2.60E+00	-	7.8E-1	2.1E-2	-	-	8.2E-15	2.4E-19	-
Al26	7.17E+05	-	1.1E+1	3.3E-7	-	-	1.1E+1	1.0E-2	1.6E-5
Cl36	3.02E+05	-	1.4E+1	3.1E-2	1.3E-8	-	5.1E+1	1.3E+0	4.7E-2
Ar39	2.69E+02	-	1.7E+0	5.9E-6	-	-	2.5E+1	5.3E-4	-
Ar42	3.30E+01	-	3.0E-1	-	-	-	7.2E-3	-	-
K40	1.28E+09	1.3E-5	3.9E-2	1.1E-4	9.2E-6	1.3E-5	4.5E-2	3.4E-4	9.6E-6
Ca41	1.03E+05	3.1E-1	4.0E+0	5.4E-5	-	3.2E-1	2.0E+1	6.9E+0	2.8E-4
Mn53	3.70E+06	3.3E-7	2.4E+0	4.6E-7	-	3.4E-7	2.4E+0	4.6E-7	-
Mn54	8.56E-01	7.4E-5	5.2E+3	1.8E-2	-	-	-	-	-
Fe55	2.70E+00	7.8E+1	4.6E+5	7.7E-1	9.3E-4	2.8E-18	1.5E-7	1.8E-12	1.2E-10
Co60	5.27E+00	2.8E+3	5.8E+5	9.5E-1	4.1E-3	2.1E-7	8.7E-4	8.1E-7	2.4E-7
Ni59	7.49E+04	4.8E+0	8.7E+3	6.1E-3	-	5.1E+0	1.0E+4	1.2E+0	-
Ni63	1.00E+02	4.7E+2	8.8E+5	2.8E+0	3.7E-2	1.4E+2	3.0E+5	3.9E+1	5.5E-2
Zn65	6.69E-01	1.2E-6	1.3E+2	5.8E-4	-	-	-	-	-
Se79	3.77E+05	3.1E+1	1.2E+0	2.2E-8	-	3.2E+1	1.2E+0	2.9E-5	-
Kr81	2.10E+05	-	7.2E-3	-	-	-	6.5E-2	-	-
Kr85	1.07E+01	-	3.3E+3	3.1E-5	-	-	3.4E-2	7.3E-6	-

Radionuclide Half-life (years) At 1.4.2022 LLW VLLW HLW ILW LLW Rb87 4.80E+10 1.1E-2 3.5E-1 - - 1.2E-2 3.5E-1 - Sr90 2.91E+01 1.7E+7 2.7E+5 1.7E+0 1.9E-4 2.5E+5 3.9E+3 3.5E-1 Zr93 1.53E+06 9.7E+2 3.7E+1 1.8E-3 - 1.0E+3 3.9E+1 2.4E-3 Nb91 6.80E+02 1.1E-4 1.1E-3 - - 1.0E-4 9.8E-2 1.0E-4 Nb92 3.50E+07 8.9E-7 3.0E-5 - - 9.7E-7 6.9E-5 5.7E-8 Nb93m 1.64E+01 7.6E+2 6.4E+1 2.9E-3 - 9.8E+2 1.2E+2 4.0E-1 Nb94 2.03E+04 6.7E-2 2.2E+2 8.1E-4 - 7.1E-2 2.7E+2 3.0E-2 Mo93 3.50E+03 3.7E-1 5.7E+1 4.5E-4 - 3.9E-1 9.0E+1 4.7E-1	
Rb87 4.80E+10 1.1E-2 3.5E-1 - - 1.2E-2 3.5E-1 - Sr90 2.91E+01 1.7E+7 2.7E+5 1.7E+0 1.9E-4 2.5E+5 3.9E+3 3.5E-1 Zr93 1.53E+06 9.7E+2 3.7E+1 1.8E-3 - 1.0E+3 3.9E+1 2.4E-3 Nb91 6.80E+02 1.1E-4 1.1E-3 - - 1.0E-4 9.8E-2 1.0E-4 Nb92 3.50E+07 8.9E-7 3.0E-5 - - 9.7E-7 6.9E-5 5.7E-8 Nb93m 1.64E+01 7.6E+2 6.4E+1 2.9E-3 - 9.8E+2 1.2E+2 4.0E-1 Nb94 2.03E+04 6.7E-2 2.2E+2 8.1E-4 - 7.1E-2 2.7E+2 3.0E-2 Mo93 3.50E+03 3.7E-1 5.7E+1 4.5E-4 - 3.9E-1 9.0E+1 4.7E-1 Tc97 2.60E+06 6.0E-8 3.5E-5 - - 6.4E-8 3.9E-5 - Tc99 2.13E+05 4.7E+3 8.2E+2 7.7E-3 8.0E-6 <td< th=""><th></th></td<>	
Sr90 2.91E+01 1.7E+7 2.7E+5 1.7E+0 1.9E-4 2.5E+5 3.9E+3 3.5E-1 Zr93 1.53E+06 9.7E+2 3.7E+1 1.8E-3 - 1.0E+3 3.9E+1 2.4E-3 Nb91 6.80E+02 1.1E-4 1.1E-3 - - 1.0E-4 9.8E-2 1.0E-4 Nb92 3.50E+07 8.9E-7 3.0E-5 - - 9.7E-7 6.9E-5 5.7E-8 Nb93m 1.64E+01 7.6E+2 6.4E+1 2.9E-3 - 9.8E+2 1.2E+2 4.0E-1 Nb94 2.03E+04 6.7E-2 2.2E+2 8.1E-4 - 7.1E-2 2.7E+2 3.0E-2 Mo93 3.50E+03 3.7E-1 5.7E+1 4.5E-4 - 3.9E-1 9.0E+1 4.7E-1 Tc97 2.60E+06 6.0E-8 3.5E-5 - - 6.4E-8 3.9E-5 - Tc99 2.13E+05 4.7E+3 8.2E+2 7.7E-3 8.0E-6 5.0E+3 1.4E+3 4.3E-	VLLW
Zr93 1.53E+06 9.7E+2 3.7E+1 1.8E-3 - 1.0E+3 3.9E+1 2.4E-3 Nb91 6.80E+02 1.1E-4 1.1E-3 - - 1.0E-4 9.8E-2 1.0E-4 Nb92 3.50E+07 8.9E-7 3.0E-5 - - 9.7E-7 6.9E-5 5.7E-8 Nb93m 1.64E+01 7.6E+2 6.4E+1 2.9E-3 - 9.8E+2 1.2E+2 4.0E-1 Nb94 2.03E+04 6.7E-2 2.2E+2 8.1E-4 - 7.1E-2 2.7E+2 3.0E-2 Mo93 3.50E+03 3.7E-1 5.7E+1 4.5E-4 - 3.9E-1 9.0E+1 4.7E-1 Tc97 2.60E+06 6.0E-8 3.5E-5 - - 6.4E-8 3.9E-5 - Tc99 2.13E+05 4.7E+3 8.2E+2 7.7E-3 8.0E-6 5.0E+3 1.4E+3 4.3E-1 Ru106 1.01E+00 3.2E+1 5.1E+3 5.6E-4 6.8E-9 - - -	-
Nb91 6.80E+02 1.1E-4 1.1E-3 - - 1.0E-4 9.8E-2 1.0E-4 Nb92 3.50E+07 8.9E-7 3.0E-5 - - 9.7E-7 6.9E-5 5.7E-8 Nb93m 1.64E+01 7.6E+2 6.4E+1 2.9E-3 - 9.8E+2 1.2E+2 4.0E-1 Nb94 2.03E+04 6.7E-2 2.2E+2 8.1E-4 - 7.1E-2 2.7E+2 3.0E-2 Mo93 3.50E+03 3.7E-1 5.7E+1 4.5E-4 - 3.9E-1 9.0E+1 4.7E-1 Tc97 2.60E+06 6.0E-8 3.5E-5 - - 6.4E-8 3.9E-5 - Tc99 2.13E+05 4.7E+3 8.2E+2 7.7E-3 8.0E-6 5.0E+3 1.4E+3 4.3E-1 Ru106 1.01E+00 3.2E+1 5.1E+3 5.6E-4 6.8E-9 - - -	1.4E-1
Nb92 3.50E+07 8.9E-7 3.0E-5 - - 9.7E-7 6.9E-5 5.7E-8 Nb93m 1.64E+01 7.6E+2 6.4E+1 2.9E-3 - 9.8E+2 1.2E+2 4.0E-1 Nb94 2.03E+04 6.7E-2 2.2E+2 8.1E-4 - 7.1E-2 2.7E+2 3.0E-2 Mo93 3.50E+03 3.7E-1 5.7E+1 4.5E-4 - 3.9E-1 9.0E+1 4.7E-1 Tc97 2.60E+06 6.0E-8 3.5E-5 - - 6.4E-8 3.9E-5 - Tc99 2.13E+05 4.7E+3 8.2E+2 7.7E-3 8.0E-6 5.0E+3 1.4E+3 4.3E-1 Ru106 1.01E+00 3.2E+1 5.1E+3 5.6E-4 6.8E-9 - - - -	-
Nb93m 1.64E+01 7.6E+2 6.4E+1 2.9E-3 - 9.8E+2 1.2E+2 4.0E-1 Nb94 2.03E+04 6.7E-2 2.2E+2 8.1E-4 - 7.1E-2 2.7E+2 3.0E-2 Mo93 3.50E+03 3.7E-1 5.7E+1 4.5E-4 - 3.9E-1 9.0E+1 4.7E-1 Tc97 2.60E+06 6.0E-8 3.5E-5 - - 6.4E-8 3.9E-5 - Tc99 2.13E+05 4.7E+3 8.2E+2 7.7E-3 8.0E-6 5.0E+3 1.4E+3 4.3E-1 Ru106 1.01E+00 3.2E+1 5.1E+3 5.6E-4 6.8E-9 - - -	-
Nb94 2.03E+04 6.7E-2 2.2E+2 8.1E-4 - 7.1E-2 2.7E+2 3.0E-2 Mo93 3.50E+03 3.7E-1 5.7E+1 4.5E-4 - 3.9E-1 9.0E+1 4.7E-1 Tc97 2.60E+06 6.0E-8 3.5E-5 - - 6.4E-8 3.9E-5 - Tc99 2.13E+05 4.7E+3 8.2E+2 7.7E-3 8.0E-6 5.0E+3 1.4E+3 4.3E-1 Ru106 1.01E+00 3.2E+1 5.1E+3 5.6E-4 6.8E-9 - - - -	-
Mo93 3.50E+03 3.7E-1 5.7E+1 4.5E-4 - 3.9E-1 9.0E+1 4.7E-1 Tc97 2.60E+06 6.0E-8 3.5E-5 - - 6.4E-8 3.9E-5 - Tc99 2.13E+05 4.7E+3 8.2E+2 7.7E-3 8.0E-6 5.0E+3 1.4E+3 4.3E-1 Ru106 1.01E+00 3.2E+1 5.1E+3 5.6E-4 6.8E-9 - - - -	-
Tc97 2.60E+06 6.0E-8 3.5E-5 - - 6.4E-8 3.9E-5 - Tc99 2.13E+05 4.7E+3 8.2E+2 7.7E-3 8.0E-6 5.0E+3 1.4E+3 4.3E-1 Ru106 1.01E+00 3.2E+1 5.1E+3 5.6E-4 6.8E-9 - - - -	-
Tc99 2.13E+05 4.7E+3 8.2E+2 7.7E-3 8.0E-6 5.0E+3 1.4E+3 4.3E-1 Ru106 1.01E+00 3.2E+1 5.1E+3 5.6E-4 6.8E-9 - - - -	-
Ru106 1.01E+00 3.2E+1 5.1E+3 5.6E-4 6.8E-9	-
	3.1E-1
Pd107 6.50E+06 5.0E+1 7.6E-1 5.2E+1 7.6E-1 5.4E-5	-
	-
Ag108m 4.18E+02 8.7E-3 2.2E+3 2.6E-2 - 6.9E-3 1.6E+3 4.9E-2	-
Ag110m 6.84E-01 2.9E-4 1.6E+2 2.4E-4	-
Cd109 1.27E+00 3.3E-5 1.9E+0 2.8E-5	-
Cd113m 1.41E+01 2.8E+3 1.1E+2 1.5E-2 - 3.6E-1 1.3E-2 2.0E-6	-
Sn119m 8.02E-01 5.1E-5 3.3E-4	-
Sn121m 5.00E+01 8.3E+3 1.4E+2 2.1E-4 - 9.2E+2 1.8E+1 5.4E-3	-
Sn123 3.54E-01 3.3E-11 2.4E-4	-
Sn126 2.30E+05 7.2E+1 4.8E+0 5.7E-8 - 7.5E+1 4.8E+0 3.9E-4	-
Sb125 2.73E+00 6.3E+3 2.5E+3 7.1E-3 1.6E-10 3.3E-16 7.8E-15 1.3E-14	2.9E-12
Sb126 3.39E-02 5.3E+1 3.7E+0 3.9E-9 - 1.1E+1 6.7E-1 5.5E-5	-
Te125m 1.59E-01 1.5E+3 7.7E+2 8.6E-5 - 8.3E-17 1.9E-15 3.1E-15	7.3E-13
Te127m 2.98E-01 6.8E-11 7.5E-8	-
I129	6.9E-2
Cs134 2.06E+00 7.5E+3 2.4E+3 6.1E-3 1.6E-10 - 2.8E-13 6.3E-16	2.5E-15
Cs135 2.30E+06 3.4E+2 1.6E+1 8.8E-8 - 3.5E+2 1.6E+1 2.3E-3	L.3L 13

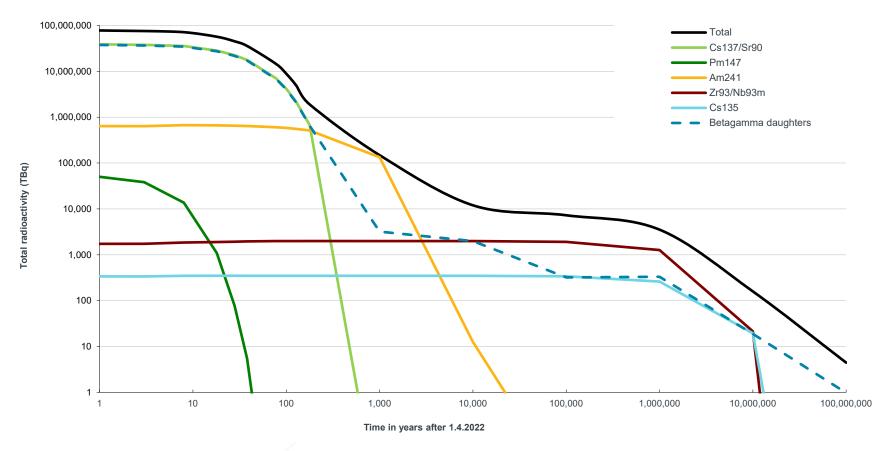
		Radionucli	de activity (TB	q) ⁽¹⁾					
Radionuclide	Half-life (years)	At 1.4.2022	2			At 1.4.2200			
		HLW	ILW	LLW	VLLW	HLW	ILW	LLW	VLLW
Cs137	3.00E+01	2.4E+7	4.6E+5	6.3E+0	3.9E-3	4.2E+5	8.3E+3	1.1E+0	1.2E-1
Ba133	1.05E+01	1.1E-2	6.8E-1	1.7E-3	8.6E-6	1.1E-7	1.1E-4	4.6E-6	7.4E-11
La137	6.00E+04	1.6E-3	4.2E-3	3.6E-7	-	1.7E-3	1.2E-2	1.2E-5	-
La138	1.05E+11	9.1E-8	1.0E-3	-	-	9.8E-8	2.1E-2	-	-
Ce144	7.80E-01	1.6E+0	4.7E+3	5.2E-4	-	-	-	-	-
Pm145	1.77E+01	4.1E-2	1.6E+0	2.4E-5	-	4.0E-5	3.4E-3	1.2E-5	-
Pm147	2.62E+00	8.8E+4	1.5E+4	9.4E-3	-	4.7E-16	7.9E-13	5.0E-15	6.6E-12
Sm147	1.06E+11	4.4E-3	1.0E-3	8.3E-17	-	4.6E-3	1.0E-3	2.2E-11	2.0E-12
Sm151	8.87E+01	1.7E+5	4.8E+3	1.8E-2	-	4.4E+4	1.2E+3	3.7E-1	3.0E-4
Eu152	1.33E+01	8.6E+2	1.7E+4	5.1E-3	2.5E-4	9.8E-2	1.8E+0	1.7E-2	1.1E-7
Eu154	8.60E+00	2.2E+5	3.1E+3	9.8E-3	8.1E-5	1.4E-1	2.0E-3	6.3E-5	1.0E-6
Eu155	4.96E+00	1.8E+4	1.1E+3	3.2E-3	3.8E-6	1.9E-7	7.3E-8	1.3E-9	1.4E-8
Gd153	6.61E-01	1.3E-6	2.7E+0	-	-	-	-	-	-
Ho163	4.57E+03	2.9E-5	1.6E-2	2.8E-6	-	3.0E-5	3.5E-2	1.2E-4	-
Ho166m	1.20E+03	1.1E+0	5.5E+0	5.4E-5	-	1.1E+0	5.5E+0	7.5E-3	-
Tm170	3.52E-01	8.7E-15	4.1E-2	<u>/-</u>	-	-	-	-	-
Tm171	1.92E+00	3.3E-2	3.0E-2	-	-	-	-	-	-
Lu174	3.31E+00	7.7E-7	8.1E-2	-	-	-	1.6E-14	-	-
Lu176	3.61E+10	6.3E-11	5.5E-5	-	-	6.8E-11	5.5E-5	4.7E-6	-
Hf178n	3.10E+01	-	1.1E-2	-	-	-	2.1E-2	-	-
Hf182	8.99E+06	9.4E-10	7.9E-5	-	-	9.9E-10	1.5E-3	-	-
Pt193	5.07E+01	1.8E-5	4.6E-2	-	-	1.6E-6	1.2E-1	3.0E-6	-
TI204	3.78E+00	1.4E-6	5.9E-1	6.4E-4	-	1.3E-20	2.6E-12	8.9E-14	-
Pb205	1.52E+07	5.6E-7	2.9E-4	-	-	6.2E-7	3.3E-3	-	-
Pb210	2.23E+01	9.8E-4	1.3E+0	6.4E-3	5.5E-6	1.0E-2	8.7E+0	1.2E-1	9.1E-2
Bi208	3.68E+05	1.1E-10	4.2E-1	-	-	1.3E-10	4.2E-1	-	-
Bi210m	3.00E+06	2.4E-11	6.2E-6	-	-	2.6E-11	1.8E-4	7.9E-6	-

		Radionucli	de activity (TBo	a) ⁽¹⁾					
Radionuclide	Half-life (years)	At 1.4.2022	2			At 1.4.220	0		
		HLW	ILW	LLW	VLLW	HLW	ILW	LLW	VLLW
Po210	3.79E-01	9.6E-4	2.1E-1	9.9E-3	5.2E-6	1.0E-2	8.7E+0	1.2E-1	9.1E-2
Ra223	3.13E-02	1.0E-2	3.0E-1	6.3E-6	5.2E-8	3.3E+0	9.8E-2	2.8E-4	6.6E-4
Ra225	4.08E-02	4.8E-5	4.1E-3	1.2E-9	-	6.7E-4	3.2E-2	1.9E-4	3.7E-3
Ra226	1.60E+03	2.1E-3	9.0E+0	7.5E-2	2.0E-5	1.2E-2	8.6E+0	1.2E-1	9.4E-2
Ra228	5.75E+00	8.9E-8	6.3E-2	1.1E-4	6.4E-5	1.0E-7	2.2E-1	1.3E-3	1.4E-2
Ac227	2.18E+01	1.0E-2	1.0E+0	6.4E-6	5.2E-8	3.3E+0	9.7E-2	2.8E-4	6.6E-4
Th227	5.12E-02	1.0E-2	3.0E-1	6.2E-6	5.1E-8	3.3E+0	9.6E-2	2.8E-4	6.5E-4
Th228	1.91E+00	1.4E-1	8.8E-1	3.1E-4	3.3E-5	1.7E-3	5.3E-1	1.7E-3	1.6E-2
Th229	7.34E+03	4.9E-5	4.3E-3	2.3E-9	3.2E-12	6.7E-4	3.2E-2	1.9E-4	3.7E-3
Th230	7.54E+04	1.3E-1	5.6E-2	1.1E-4	2.5E-5	1.4E-1	2.1E-1	3.9E-3	1.9E-2
Th232	1.41E+10	9.7E-8	9.3E-2	2.0E-4	1.6E-4	1.0E-7	2.2E-1	1.3E-3	1.4E-2
Th234	6.60E-02	2.5E-1	1.6E+1	5.2E-3	5.2E-4	2.8E-1	2.3E+1	4.2E-1	2.3E+0
Pa231	3.28E+04	5.3E+0	7.4E-2	3.1E-5	5.2E-8	3.3E+0	9.4E-2	3.2E-4	8.9E-4
Pa233	7.39E-02	5.9E+1	8.6E+1	7.1E-3	9.0E-6	1.0E+2	9.5E+1	6.6E-2	7.8E-2
U232	6.98E+01	8.6E-3	9.2E-1	2.2E-4	2.8E-11	1.6E-3	3.0E-1	3.0E-4	2.4E-3
U233	1.59E+05	5.4E-3	1.5E+0	1.4E-3	9.1E-6	7.3E-2	1.7E+0	1.2E-2	3.4E-1
U234	2.46E+05	9.6E-1	8.3E+1	9.2E-1	3.8E-4	1.7E+0	9.0E+1	1.8E+0	2.0E+0
U235	7.04E+08	1.4E-2	5.3E-1	3.2E-2	3.4E-5	1.5E-2	7.2E-1	6.0E-2	3.5E-1
U236	2.34E+07	1.7E-1	1.7E+0	1.4E-2	2.0E-10	2.0E-1	1.8E+0	5.4E-2	1.8E-1
U238	4.47E+09	2.5E-1	1.8E+1	3.0E-1	5.6E-4	2.8E-1	2.3E+1	4.2E-1	2.3E+0
Np237	2.14E+06	6.5E+1	5.9E+1	7.2E-3	1.1E-5	1.0E+2	9.5E+1	6.6E-2	7.8E-2
Pu236	2.90E+00	5.8E-4	5.2E+0	-	-	-	1.0E-17	-	-
Pu238	8.77E+01	1.3E+3	5.9E+3	1.1E+0	1.5E-4	1.0E+3	2.1E+3	4.3E-1	2.2E-2
Pu239	2.41E+04	3.0E+2	1.0E+4	3.8E-1	4.2E-4	3.4E+2	1.4E+4	2.7E+0	1.6E-1
Pu240	6.56E+03	7.0E+2	1.1E+4	2.1E-1	4.1E-4	9.9E+2	1.3E+4	1.2E+0	1.7E-1
Pu241	1.44E+01	2.0E+4	2.2E+5	3.3E+0	1.3E-3	3.1E+1	8.4E+1	1.1E-2	2.2E-1
Pu242	3.74E+05	1.1E+0	7.0E+0	2.9E-4	1.1E-8	1.3E+0	8.8E+0	3.3E-3	3.7E-3

		Radionuclio	le activity (TBq) ⁽¹⁾					
Radionuclide	Half-life (years)	At 1.4.2022				At 1.4.220			
		HLW	ILW	LLW	VLLW	HLW	ILW	LLW	VLLW
Am241	4.33E+02	6.4E+5	3.1E+4	8.9E-1	5.1E-4	5.1E+5	3.2E+4	3.7E+0	1.9E-1
Am242m	1.41E+02	1.7E+3	2.0E+2	4.7E-4	-	7.4E+2	8.4E+1	2.1E-3	-
Am243	7.36E+03	2.7E+3	2.4E+1	7.0E-6	-	2.9E+3	2.4E+1	2.7E-2	8.2E-10
Cm242	4.46E-01	1.4E+3	2.0E+2	4.3E-4	3.6E-11	6.1E+2	7.0E+1	1.7E-3	-
Cm243	3.00E+01	1.1E+3	3.5E+1	1.3E-3	6.5E-9	2.0E+1	5.8E-1	7.1E-5	2.5E-6
Cm244	1.81E+01	8.8E+4	6.2E+2	7.7E-3	3.8E-9	1,1E+2	9.3E-1	1.8E-2	1.7E-4
Cm245	8.50E+03	2.5E+1	5.1E-2	7.2E-4	-	2.6E+1	6.7E-2	3.6E-3	2.1E-1
Cm246	4.73E+03	4.6E+0	9.2E-3	1.5E-6	-	4.9E+0	7.2E-2	1.1E-2	1.8E-2
Cm248	3.40E+05	3.6E-5	2.0E+0	3.2E-5	-	3.9E-5	1.6E+1	3.2E-5	-
Cf249	3.51E+02	3.6E-4	4.6E-4	-	- /	2.7E-4	5.6E-4	3.0E-5	-
Cf250	1.31E+01	6.3E-4	3.7E-5	-	-	5.6E-8	2.1E-7	3.2E-8	-
Cf251	8.98E+02	1.5E-5	7.7E-8	-	_ -	1.4E-5	1.3E-7	-	-
Cf252	2.65E+00	3.3E-6	4.2E+3	-	-	-	4.9E-15	-	-
Alpha daughters		5.4E-1	3.1E+1	2.3E-1	1.8E-4	1.0E+1	2.8E+1	3.7E-1	3.6E-1
Beta/gamma daughters		4.0E+7	7.2E+5	8.2E+0	5.1E-3	6.5E+5	2.6E+4	4.8E+0	3.4E+0

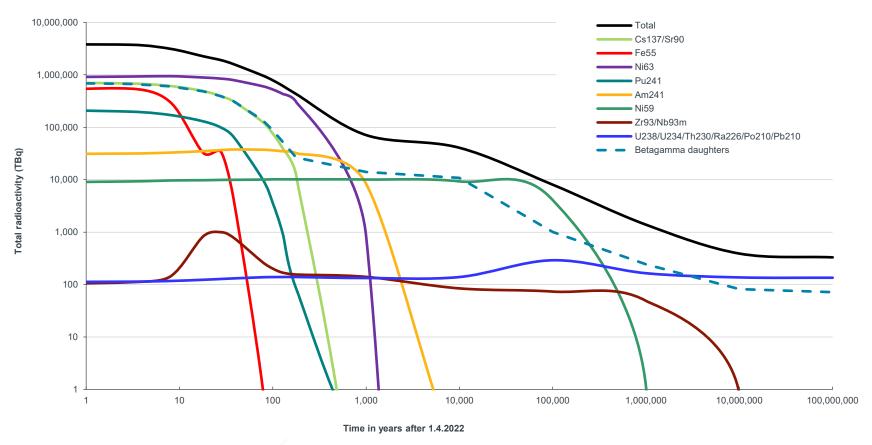
⁽¹⁾ Only waste streams with a quantified radionuclide concentration contribute to this table.





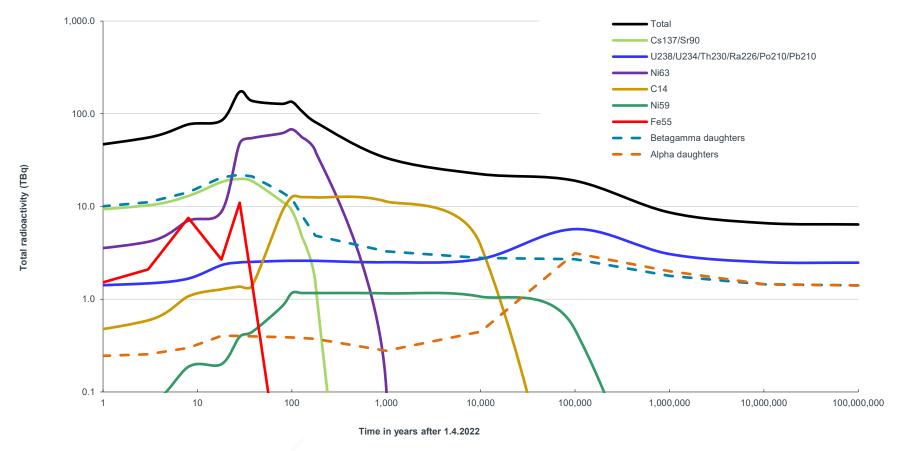
HLW comprises the waste fission products from reprocessing spent nuclear fuel. The total activity of HLW for about 300 years following 1 April 2022 is largely due to the activities of the fission products Sr90 and Cs137. It is also due to their short-lived daughters (Y90 and Ba137m respectively). Both Sr90 and Cs137 have a radioactive half-life of about 30 years. Thereafter increasing longer half-life radionuclides make significant contributions, including Am241, Zr93 and Nb93m.

Figure 7.2: ILW activity as a function of time post 1 April 2022



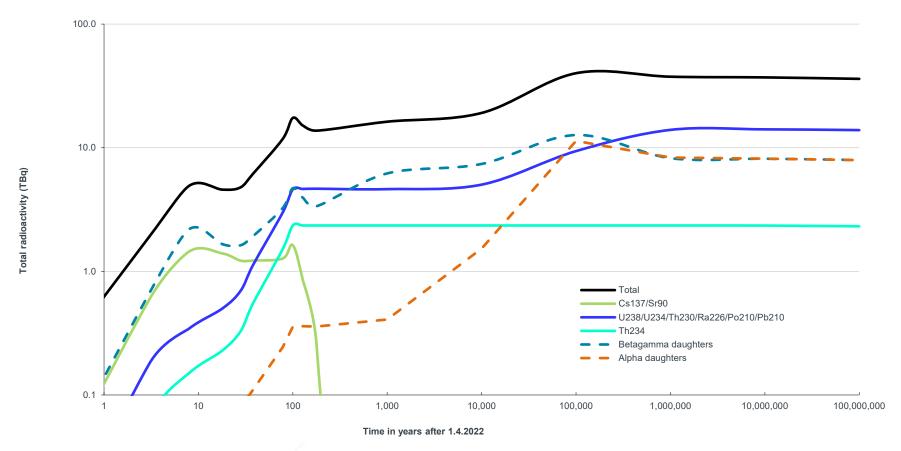
ILW comprises wastes that have been activated by neutrons in reactors or have been contaminated with fission products and/or uranium and its radioactive decay products. In the first 300 years following 1 April 2022 there are a few major contributors to the total activity of ILW. This includes the activation product Ni63 and the fission products Sr90 and Cs137 and their short-lived daughters (Y90 and Ba137m respectively). Thereafter a number of increasing longer half-life radionuclides make significant contributions, including the activation product Ni59. After a few millions of years uranium and its radioactive daughters are predominant.

Figure 7.3: LLW activity as a function of time post 1 April 2022



LLW comprises wastes that have been activated by neutrons in reactors or have been contaminated with fission products and/or uranium and its radioactive decay products. In the first 300 years following 1 April 2022 there are a few major contributors to the total activity of LLW. This includes the activation product Ni63, and the fission products Sr90 and Cs137 and their short-lived daughters (Y90 and Ba137m respectively). Thereafter a number of longer half-life radionuclides make significant contributions, including activation products C14 and Ni59. After about 100,000 years uranium and its radioactive daughters are predominant.

Figure 7.4: VLLW activity as a function of time post 1 April 2022



VLLW principally comprises wastes that have been contaminated with uranium and its radioactive decay products and with fission products. Apart from the first 100 years following 1 April 2022, the major contributor to the total activity of VLLW is uranium and its radioactive daughters.



Half-height ISO containers at the LLWR

GLOSSARY

	<	Less than.
A	ADAP	Aqueous Discharge Abatement Plant.
	ADU	Ammonium Diuranate.
	АЕТР	Active Effluent Treatment Plant.
	AEWTP	Active Effluent Waste Treatment Plant.
	AGR	Advanced Gas-cooled Reactor.
	AW500	A proprietary zeolite used in ion exchange processes.
	AWE	AWE develops nuclear warheads for the UK's deterrent at Aldermaston and Burghfield in Berkshire.
В	BAESM	BAE Systems Marine Ltd.
	BCD	Burst Cartridge (Can) Detection.
	Becquerel	The standard international unit of measurement of radioactivity – corresponding to one disintegration per second. Its symbol is Bq (see also TBq).
	BEIS	The Department for Business, Energy & Industrial Strategy is a ministerial department that brings together responsibilities for business, industrial strategy, science, innovation, energy, and climate change.
	ВЕР	Box Encapsulation Plant (at Sellafield).
	ВЕРО	British Experimental Pile 0. Air-cooled graphite- moderated pile (at Harwell; shut down in 1968).
	Beta/gamma activity	Activity associated with the emission of beta particles and/or gamma radiation.
	BPS	Berkeley Power Station.

	втс	British Technology Centre (at Sellafield). Now known as National Nuclear Laboratory, Central Laboratory.
C	C&M	Care and Maintenance.
	Capping material	Cement or other substance forming inactive cover over conditioned waste in a container.
	ССР	Cartridge Cooling Pond.
	CEGB	Central Electricity Generating Board. A body previously responsible for electricity generation in England and Wales.
	CHILW	Contact Handled Intermediate Level Waste.
	Clifton Marsh	Landfill site (near Preston).
	Conditioned volume	The volume of waste after conditioning, consisting of the waste material and encapsulating matrix.
	Conditioned waste	Radioactive waste that has undergone <i>conditioning</i> .
	Conditioning	The process used to prepare waste for long-term storage and/or disposal by converting it into a solid and stable form. The conditioning material may be cement, glass or polymer.
	Crud	Any deposits of impurity or corrosion product.
	cvcs	Chemical Volume and Control System (PWR station).
	СХРР	Chapelcross Process Plant.
D>	DCP	Dounreay Cementation Plant.

	Decommissioning waste	Waste arising after shutdown of a facility associated with the use or handling of radioactive materials. It can consist of plant or equipment, building debris or material from the clean-up of surrounding ground.
	Depleted uranium	Uranium where the uranium 235 isotope content is below the naturally occurring 0.72% mole fraction.
	DFR	Dounreay Fast Reactor (shut down in 1977).
	DIDO	Heavy-water cooled and moderated materials testing reactor (at Harwell; shut down in 1990).
	Disposal	The emplacement of waste in a suitable facility without intent to retrieve it.
	DMTR	Dounreay Materials Test Reactor.
	Dragon	Experimental high temperature reactor (at Winfrith; shut down in 1976).
E	Enriched uranium	Uranium where the U235 isotope content is above the naturally occurring 0.72% mole fraction.
	Enrichment	The process of increasing the abundance of fissionable atoms in natural uranium.
F	FED	Fuel Element Debris.
	FGMSP	First Generation Magnox Storage Pond (at Sellafield).
	Fission	Spontaneous or induced fragmentation of heavy atoms into two (occasionally three) lighter atoms, accompanied by the release of neutrons and radiation.
	Fission products	Atoms, often radioactive, resulting from nuclear fission.

	Flatrol	Type of railway wagon. It is used for transporting fuel flasks.
	Floc	A product of flocculation, a process of coagulation by the use of reagents.
	Fuel cladding	The metal casing around the fuel.
	Fuel stringer	A string of fuel element assemblies for an AGR.
G♭	GE Healthcare Ltd	A company that provides products and services for use in healthcare and life science research. This includes radioisotopes for medical and research users.
	GDF	Geological Disposal Facility. Deep underground facility for disposal of higher activity waste.
	GLEEP	Graphite Low Energy Experimental Pile (at Harwell; shut down in 1990).
H)	НА	High Activity.
	HAL	Highly Active Liquor.
	Hex	Uranium Hexafluoride.
	HLW	High Level Waste.
	HMNB	Her Majesty's Naval Base.
	HVVLLW	High Volume Very Low Level Waste.
D	ILW	Intermediate Level Waste.
	IFP	Insoluble fission products.
J >	JET	Joint European Torus - the internationally funded fusion project sited at Culham.
L.	LA	Low Active.
	LA-LLW	Low Activity Low Level Waste.
	LETP	Liquid Effluent Treatment Plant.
	LLLETP	Low Level Liquid Effluent Treatment Plant.
	LLRF	Low Level Refuelling Facility.

	LLW	Low Level Waste.	
	LLWR	Low Level Waste Repository. The LLWR in West Cumbria has operated as a national disposal facility for LLW since 1959.	
	LSA	Low Specific Activity.	
	LWR	Light Water Reactor.	
M >	m³	Cubic metres – a measure of volume.	
	MA	Medium Active.	
	MAC	Miscellaneous Activated Component.	
	Magnox	An alloy of magnesium used for fuel element cladding in natural uranium fuelled gas-cooled power reactors, and a generic name for this type of reactor.	
	MCI	Miscellaneous Contaminated Items.	
	MEB	Multi-Element Bottle. Container used to hold irradiated LWR fuel in cooling ponds.	
	MEP	Magnox Encapsulation Plant (at Sellafield).	
	MMMF	Man-Made Mineral Fibre.	
	MOD	Ministry of Defence.	
	MODIX	Multi-stage Oxidative Decontamination with Ion- Exchange. A process used to clean the pressure vessels and primary circuit pipework of nuclear submarines.	
	мох	Mixed Oxide. Refers to nuclear fuel consisting of uranium oxide and plutonium oxide for use in reactors.	
	MTR	Materials Testing Reactor.	

N >	NDA	Nuclear Decommissioning Authority. A non- departmental public body responsible for overseeing decommissioning and cleanup of 17 of the UK's civil public sector nuclear sites.
	NDS	Commercial disposal service, sometimes referred to as the National Disposal Service.
	NE	Not Estimated.
	Nimonic	An alloy of the elements nickel, chromium and other minor constituents.
	NNL	National Nuclear Laboratory Limited. A Government owned science and technology services company.
	NRTE	Naval Reactor Test Establishment (at Vulcan, Dounreay).
	Nuclear fuel	Fuel used in a nuclear reactor. Most fuel is made of uranium metal or oxide, and produces heat when the uranium atoms split into smaller fragments.
	NWS	Nuclear Waste Services. The organisation formed from the LLW Repository Ltd, Radioactive Waste Management Limited and the Nuclear Decommissioning Authority group's Integrated Waste Management Programme.
0 >	Operational waste	Wastes arising from the day-to-day operations of a facility or site.
P	Packaged volume	The volume of waste after packaging, consisting of the waste material, any encapsulating matrix, any capping grout and ullage, and the container.
	Packaged waste	Radioactive waste that has undergone packaging.
	Packaging	The loading of waste into a container for long-term storage and/or disposal.

	PCD	Primary Circuit Decontamination.
	PCM	Plutonium Contaminated Material.
	PFR	Prototype Fast Reactor (at Dounreay; shut down in 1994).
	PIE	Post Irradiation Examination, of fuel elements etc.
	PLUTO	Heavy-water cooled and moderated materials testing reactor (at Harwell; shut down in 1990).
	Plutonium	A radioactive element created in nuclear reactors. It can be separated from spent nuclear fuel by reprocessing. Plutonium is used as a nuclear fuel, in nuclear weapons and as a power source.
	POCO	Post Operational Clean Out. Activity after final shutdown that prepares a plant for decommissioning.
	Pond furniture	Various storage racks, skips, frames, containers and MEBs used for storing irradiated fuel in cooling ponds.
	Pu	Plutonium.
	PWR	Pressurised Water Reactor.
	PWTP	Pond Water Treatment Plant (at reactor sites).
R≯	Radioactivity	A property possessed by some atoms that split spontaneously, with release of energy through emission of a sub-atomic particle and/or radiation.
	Raffinate	A solution resulting from a solvent extraction process. The term is applied to the aqueous solution of fission products remaining after the extraction of uranium and plutonium in spent fuel reprocessing.

Reprocessing The chemical extraction of reusable uranium and plutonium from waste materials in spent nuclear fuel. RHILW Remote Handled Intermediate Level Waste. RRF Residue Recovery Facility (at Capenhurst). RRSL Rolls-Royce Submarines Ltd. RV Resin Vault (at Trawsfynydd). SDP Sodium Disposal Plant (at Dounreay). SDP Submarine Dismantling Project. SEP Silo Emptying Plant (at Sellafield). SETP Segregated Effluent Treatment Plant (at Sellafield). SGHWR Steam Generating Heavy Water Reactor (at Winfrith site; shut down in 1990). SIXEP Site Ion Exchange Plant (at Sellafield). SMP Sellafield MOX Plant. SPP Sludge Packaging Plant (at Sellafield). Storage The emplacement of waste in a suitable facility with the intent to retrieve it at a later date. T > TBq Terabecquerel (equal to 1,000,000,000,000 Becquerels). te Tonnes. thM Tonnes of heavy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at Sellafield).			
RRF Residue Recovery Facility (at Capenhurst). RRSL Rolls-Royce Submarines Ltd. RV Resin Vault (at Trawsfynydd). SDP Sodium Disposal Plant (at Dounreay). SDP Submarine Dismantling Project. S SEP Silo Emptying Plant (at Sellafield). SETP Segregated Effluent Treatment Plant (at Sellafield). SGHWR Steam Generating Heavy Water Reactor (at Winfrith site; shut down in 1990). SIXEP Site Ion Exchange Plant (at Sellafield). SMP Sellafield MOX Plant. SPP Sludge Packaging Plant (at Sellafield). Storage The emplacement of waste in a suitable facility with the intent to retrieve it at a later date. T > TBq Terabecquerel (equal to 1,000,000,000,000 Becquerels). te Tonnes. Thorp Thermal Oxide Reprocessing Plant (at		Reprocessing	reusable uranium and plutonium from waste materials in spent nuclear
RRSL Rolls-Royce Submarines Ltd. RV Resin Vault (at Trawsfynydd). SDP Sodium Disposal Plant (at Dounreay). SDP Submarine Dismantling Project. SEP Silo Emptying Plant (at Sellafield). SETP Segregated Effluent Treatment Plant (at Sellafield). SGHWR Steam Generating Heavy Water Reactor (at Winfrith site; shut down in 1990). SIXEP Site Ion Exchange Plant (at Sellafield). SMP Sellafield MOX Plant. SPP Sludge Packaging Plant (at Sellafield). Storage The emplacement of waste in a suitable facility with the intent to retrieve it at a later date. T > TBq Terabecquerel (equal to 1,000,000,000,000 Becquerels). te Tonnes. thM Tonnes of heavy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at		RHILW	
RV Resin Vault (at Trawsfynydd). SDP Sodium Disposal Plant (at Dounreay). SDP Submarine Dismantling Project. SEP Silo Emptying Plant (at Sellafield). SETP Segregated Effluent Treatment Plant (at Sellafield). SGHWR Steam Generating Heavy Water Reactor (at Winfrith site; shut down in 1990). SIXEP Site Ion Exchange Plant (at Sellafield). SMP Sellafield MOX Plant. SPP Sludge Packaging Plant (at Sellafield). Storage The emplacement of waste in a suitable facility with the intent to retrieve it at a later date. T T TBq Terabecquerel (equal to 1,000,000,000,000 Becquerels). te Tonnes. thM Tonnes of heavy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at		RRF	•
SDP Sodium Disposal Plant (at Dounreay). SDP Submarine Dismantling Project. SEP Silo Emptying Plant (at Sellafield). SETP Segregated Effluent Treatment Plant (at Sellafield). SGHWR Steam Generating Heavy Water Reactor (at Winfrith site; shut down in 1990). SIXEP Site Ion Exchange Plant (at Sellafield). SMP Sellafield MOX Plant. SPP Sludge Packaging Plant (at Sellafield). Storage The emplacement of waste in a suitable facility with the intent to retrieve it at a later date. T > TBq Terabecquerel (equal to 1,000,000,000,000 Becquerels). te Tonnes. thM Tonnes of heavy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at		RRSL	-
SDP Submarine Dismantling Project. S SEP Silo Emptying Plant (at Sellafield). SETP Segregated Effluent Treatment Plant (at Sellafield). SGHWR Steam Generating Heavy Water Reactor (at Winfrith site; shut down in 1990). SIXEP Site Ion Exchange Plant (at Sellafield). SMP Sellafield MOX Plant. SPP Sludge Packaging Plant (at Sellafield). Storage The emplacement of waste in a suitable facility with the intent to retrieve it at a later date. T > TBq Terabecquerel (equal to 1,000,000,000,000 Becquerels). te Tonnes. thM Tonnes of heavy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at		RV	,
Project. SEP Silo Emptying Plant (at Sellafield). SETP Segregated Effluent Treatment Plant (at Sellafield). SGHWR Steam Generating Heavy Water Reactor (at Winfrith site; shut down in 1990). SIXEP Site Ion Exchange Plant (at Sellafield). SMP Sellafield MOX Plant. SPP Sludge Packaging Plant (at Sellafield). Storage The emplacement of waste in a suitable facility with the intent to retrieve it at a later date. T > TBq Terabecquerel (equal to 1,000,000,000,000 Becquerels). te Tonnes. thM Tonnes of heavy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at		SDP	•
Sellafield). SETP Segregated Effluent Treatment Plant (at Sellafield). SGHWR Steam Generating Heavy Water Reactor (at Winfrith site; shut down in 1990). SIXEP Site Ion Exchange Plant (at Sellafield). SMP Sellafield MOX Plant. SPP Sludge Packaging Plant (at Sellafield). Storage The emplacement of waste in a suitable facility with the intent to retrieve it at a later date. That Terabecquerel (equal to 1,000,000,000,000 Becquerels). te Tonnes. thm Tonnes of heavy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at		SDP	
Treatment Plant (at Sellafield). SGHWR Steam Generating Heavy Water Reactor (at Winfrith site; shut down in 1990). SIXEP Site Ion Exchange Plant (at Sellafield). SMP Sellafield MOX Plant. SPP Sludge Packaging Plant (at Sellafield). Storage The emplacement of waste in a suitable facility with the intent to retrieve it at a later date. The TBq Terabecquerel (equal to 1,000,000,000,000 Becquerels). te Tonnes. thM Tonnes of heavy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at	S>	SEP	
Water Reactor (at Winfrith site; shut down in 1990). SIXEP Site Ion Exchange Plant (at Sellafield). SMP Sellafield MOX Plant. SPP Sludge Packaging Plant (at Sellafield). Storage The emplacement of waste in a suitable facility with the intent to retrieve it at a later date. That Tarabecquerel (equal to 1,000,000,000,000 Becquerels). te Tonnes. thm Tonnes of heavy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at		SETP	Treatment Plant (at
Sellafield). SMP Sellafield MOX Plant. SPP Sludge Packaging Plant (at Sellafield). The emplacement of waste in a suitable facility with the intent to retrieve it at a later date. The TBq Terabecquerel (equal to 1,000,000,000,000 Becquerels). te Tonnes. thm Tonnes of heavy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at		SGHWR	Water Reactor (at Winfrith
SPP Sludge Packaging Plant (at Sellafield). Storage The emplacement of waste in a suitable facility with the intent to retrieve it at a later date. The TBq Terabecquerel (equal to 1,000,000,000,000 Becquerels). The Tonnes. Thomas Tonnes of heavy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at		SIXEP	
Sellafield). Storage The emplacement of waste in a suitable facility with the intent to retrieve it at a later date. The part of the intent to retrieve it at a later date. Terabecquerel (equal to 1,000,000,000,000 Becquerels). The part of the avy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at		SMP	Sellafield MOX Plant.
in a suitable facility with the intent to retrieve it at a later date. T > TBq Terabecquerel (equal to 1,000,000,000,000 Becquerels). te Tonnes. tHM Tonnes of heavy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at		SPP	
1,000,000,000,000 Becquerels). te Tonnes. tHM Tonnes of heavy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at		Storage	in a suitable facility with the intent to retrieve it at a later
tHM Tonnes of heavy metal. A unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at	T >	ТВq	1,000,000,000,000
unit of mass used to quantify uranium, plutonium and thorium including mixtures of these elements. Thorp Thermal Oxide Reprocessing Plant (at		te	Tonnes.
Reprocessing Plant (at		tHM	unit of mass used to quantify uranium, plutonium and thorium including mixtures of these
		Thorp	Reprocessing Plant (at

	THTR	Thorium High Temperature Reactor.
	Treatment	A process that changes the state or form of radioactive waste to facilitate its future management.
	Tritiated	Containing tritium.
	Tritium	An isotope of hydrogen (H-3) having a radioactive half- life of about 12 years.
	tU	Tonnes of Uranium – a measure of mass.
UÞ	UCP	Urenco Chemical Plants.
	Ullage	The space remaining within a container above the conditioned waste matrix and any capping material.
	United Kingdom Atomic Energy Authority	A public body that manages the UK fusion research programme and operates the Joint European Torus (JET).
	Uranium	A radioactive element that occurs in nature. Uranium is used for nuclear fuel and in nuclear weapons.
V >	Vitrification	The process of converting materials into a glass or glass-like form. Vitrification is the process used to convert liquid HLW into a borosilicate glass.
	VLLW	Very Low Level Waste.
	Vulcan	The Naval Reactor Test Establishment (NRTE), located adjacent to Dounreay on the north coast of Scotland.
W >	WAGR	Windscale Advanced Gas- cooled Reactor (at Sellafield site; shut down in 1981).
	WAMAC	Waste Monitoring and Compaction facility (at Sellafield).
	Waste package	A container and its content of conditioned radioactive waste.
	WEP	Wastes Encapsulation Plant (at Sellafield).

WRAT	Waste Requiring Additional Treatment.
WTC	Waste Treatment Complex (at Sellafield).